

VOL. XLV.

ENTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875 LONDON, ONTARIO, AUGUST 4, 1910.

No. 932

Wood shingles make apoor roofing investment

The only way to arrive at a correct conclusion as to which roofing is the best investment is to compare their cost per year of ser-

Wooden shingles, of medium grade, in most parts of Ontario, cost at least \$5.50 per square—100 square feet of surface.

29¹₆c. per Square

They may last twelve years. Chances are they will be rotted through long before then. However, let us divide \$3.50 by 12. That gives us their cost per year of service, which is 29 1-6c per square per year.

Ready roofing is an even poorer investment. The best does not last longer than 10 years. At \$3.50 per square, the cost per year is 35c.

Slate is easily twice as good an investment as wooden shingles. A slate roof will last 50 years At \$7.00 per square the cost per year figures out as 14c.

Better Than Slate

PRESTON Safe-Lock Gal-PRESTON Safe-Lock dar-vanized Steel Shingles are an even better investment than slate. They will at least last as long as slate.

All slate roofs, you know,

have galvanized steel valleys, hips and ridges—the most exposed portions of the roof. That proves good at eel roofing is as durable as slate.

9c. per Square

But PRESTON Shingles only cost \$4.50 per square. Allowing for 52 years of service their cost per year is 9c per square, as against 14c for slate, 291-6c for wooden shingles, 35c for ready roofing.

PRESTON Safe-Lock Shingles should last 100 years. They are the only shingles made and galvanized so as to pass the British Government's Acid Test. Shingles that will pass this test are practically everlasting, yet PRESTON Shingles easily pass this severe test.

As PRESTON Shingles As PRESTON Sningles are made on improved automatic machinery and the locks are accurately formed, they fit together quickly.

Lay Them Faster

A man and a helper can lay 10 squares of PRESTON Safe-Lock Shingles in a day, whereas 5 or 6 squares would be a good average would be a good average with wood shingles and other

poor investment

metal shingles. If you have a large surface to roof that saving of time and labor means a good deal to

Remember, it takes half again as long to lay wooden shingles as PRESTON Sningles. Twice as long to lay slate.

Besides, wooden shingles and ready roofing cost something for repairing and repainting every three or four years. You save all this expense with PRESTON Shingles.

Less Insurance

Also, the insurance rate wooden shingles is far Send for it higher than for PRESTON you'll forget it.

Shingles—often as much as 50 per cent. more.

But before making any decision as to the kind of roofing you will buy, send for our new booklet, "Truth About Roofing.

Booklet Reward

This booklet contains information of real value to anyone who has a building to roof. It explains PRESTON Safe-Lock construction fully and contains a copy of our Free Lightning Guarantee. We should charge something for this booklet, but we will send it FREE as a reward to all who will cut out, fill in and mail the coupon to us.

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HEAD OFFICE, QUEEN ST. FACTORY, PRESTON, ONT. BRANCH OFFICE AND FACTORY, MONTREAL, QUEBEC.

PRESTON SAFE-LOCK Metal Roof is a Good Investment The

SHINGLES

Please send me your new booklet, "Truth About Roofing," I am interested in roofing, and would like complete information about PRESTON Safe-Lock Shingles.									
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of price, from THE CLECTRIC BEAN CHI MICAL CL. LIG. ULLAWA



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California weather in every room the cold winter months

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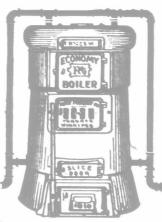
heating surface than ordinary firepots. This also provides a continual draft, insuring lively combustion where coals lie dead around the ordinary smooth interior—another proof of the perfection of "Econ

omy" construction. You should know more about "Economy" Boilers before investing in any heating system. Send to-day for free booklet—"Boiler" Information.

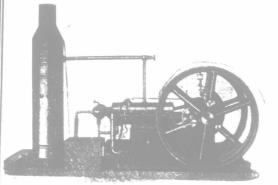


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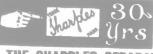
The best proof that common cream separator o disks or other contraptions. to disks or other contraptions. To contraptions simply because they left force. Since they lack skimming freither modern nor properly built, these facts, could any maker or age cream separators be more foolish than to claim that disks or other make, or are needed in, a modern

Sharples Dairy Tubular Cream Separators



wash many times easier, and wear several times longer than common separators.

The World's Best. The manufacture of Tubulars is one of Canada's leading industries. Sales easily exceed most, if not all, others combined. Probably replace more common separators than any one maker of such machines sells.



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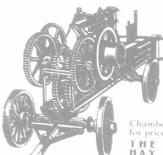
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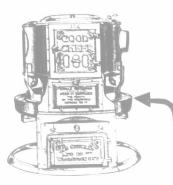
PORT PERRY, ONTARIO School ER.

DRAUGHTS NEVER CAUSED A COLD

Stuffy Rooms Alone Responsible Says Dr. Treves.

Special Cable to The Mail and Empire Over Our Own Leased Wires. London, June 26.-Dr. Sir Frederick Treves astonished the public last week by declaring that "the idea that colds are caused by draughts are absurd. No cold ever had such an origin. Colds are the origin not of draughts, but of stuffy rooms." Other famous London physicians back up Sir Frederick in holding that no cold was

ever caused by draught.



You may question Sir Frederick's statement but there can be no doubt whatever as to the evil effects of a close stuffy atmosphere. In the wintertime, when storm doors and double windows help to make the house practically air-tight, we live in a death dealing atmosphere, breathing air vitiated with the vapor elimination from the lungs of the occupants and the organic secretions and moisture from the pores

of the skin. There should be humidity, but it must be pure and refreshing as that of the outdoor air, and it is through the introduction of fresh outdoor air and its ample humidification by means of the large Circle Waterpan that the

Circle Waterpan Warm Air Furnace

makes the atmosphere of the house in winter like that of a bright June morning-warm, retreshing and life giving.

The demand for our booklet "Humidity and Humanity" is taxing the capacity of our mailing staff, but we have a copy for you upon request, stating where you saw this advertisement.

The JAS. STEWART MFG. CO., Limited, WINNIPEG, Man. WOODSTOCK, Ont.

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Central Canada Fair, 1910, to surpass all predecessors. Premiums for Horses Generously Increased, and larger appropriations of prize money for cattle, swine, sheep, poultry and agricultural produce.

\$16,000.00 AND 40 GOLD MEDALS. Buttermaking Contests, Manufacture in Progress, Parade of Prize Animals, Grand-stand for 12,000, Pyrotechnics, Mimic Warfare, Horse Races, Vaudeville. Entries close Sept. 7th. Write for prize list and other information to:

ED. McMAHON, SECRETARY, OTTAWA, ONT.

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Every farmer and thresher-man knows the value of a time-saving machine such as a har-vester. We want YOU to know vester. We want YOU to know the money-making qualities of the BUCKEYE TRACTION DITCHER. It cuts 100 to 150 rods per day, and saves 25 per cent, to 50 per cent, of the cost of handwork. Are YOU interested anxious to earn more money? Write TO-DAY for catalogue "T." Remember, the first man in your vicinity to use a BUCKEYE will make the biggest profits. Address:

Sales Department, THE BUCKEYE TRACTION DITCHER CO.,

Findlay, Ohio, U.S.A.

THE SPICE OF LIFE.

WANTED: LATEST AILMENT.

Well, here I am," announced the fashionable physician in his breezy way. And now, what do you think is the matter with you?

"Doctor, I hardly know," murmured the fashionable patient. "What is new?"

CHOPPED FEED.

A miss is good for a smile.

It's a short worm that has no turning. Even a bad egg has certain striking

An idea, like a pin, should go point foremost.

When a man takes life as a joke, his case is serious. The little brown jug is best when filled

with cold water. Regeneration of the heart is neither

painful nor fatal. There is a difference between sticking to

and sticking your friends. The best way to avoid life's troubles is

to find something useful to do-and then The further a man's feet are from the ground, the further away is the reform he

"Working like a dog" doesn't seem to be the worst sort of a life when you stop to think how little a dog works.-Agricultural Gazette.

The Lover's Answer.

You ask me why I love you! Can you tell

Why violets purple the cool woods in May?

Or why spring-beauties carpet every dell? Or why bright stars flash out on heaven's highway?

Ah, can you tell me why the rainbow gleams

A tinted arch against a tear-wet sky? Or can you tell the secret of the streams That murmur like a tender lullaby?

Ah, can you tell me why the wood-thrush sings?

Or why a golden light rests on the sea? Or why 'mong moss and fern are living Or why sweet odors lure the honey bee?

Canst tell why lilies are as pure as snow? Or why the rose in beauty is complete? If you can tell me why these things are

Then I can tell thee why I love thee.

-Lillie Ripley, in the Independent.

A VICARIOUS SACRIFICE.

The following story of circuit-rider days was told to "The Farmer's Advoate" not long ago, by a grandson of one of the prime actors in the incident related: A good Methodist stalwart was expecting the minister on his rounds and adjured his two boys to go early to bed and be perfectly quiet, as the preacher would be tired from his long horseback ride. Now, it so happened that the lady of the house had a full bump of that feminine desire for change which transposes the sideboard and writing desk every six months. She had accordingly moved the boys' bed into the "spare room" and fitted up their room as a guest chamber. Awakening in the night, one of the young imps, inspired with the spirit of mischief, braced himself against the wall and projected his sleeping brother into space, so that he fell with a thump in the middle of the floor, making a noise that aroused the household. Spirit of righteous indignation in his heart, the father took himself upstairs to administer a "feeling" rebuke. Smack! his hand fell on a bare spot exposed by the sudden removal of bed clothes. "What's the ------" "None of that; not a word," said the father pre-emptorily, proceeding to administer a sound thrashing. "Now, where's David?" he remarked, as he finished. "Why, Mr. G---!" ejaculated the astonished minister, to the still more astonished father. "Oh, no, never mind the boys," pleaded the minister, as the father started for their room, "I've been a vicatious sacrifice." The sacrince answered, and the boys

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are everything that plaster, wood and wall paper are

Metallic Ceilings are fireproof, absolutely.

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THE GREAT SUMMER FOOD.

In BOVRIL you get all the goodness of prime beef in a most easily assimilated form. No matter how it is taken - in soup, in gravy, or as a beverage, its benefits are immediate and

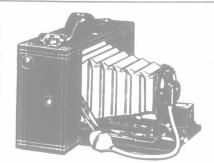
It strengthens the body without overheating.





When Writing Mention This Paper.

MENTION THE FARMER'S ADVOCATE WHEN WRITING ADVERTISERS.



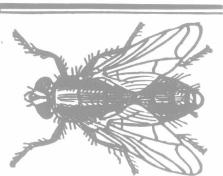
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Load in daylight with genuine Kodak film cartridges. No darkroom for any part of the workfrom pressing the button to the finished picture. Ask your Kodak dealer or write us for "The Book of the Brownies."

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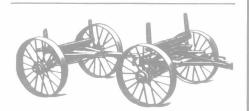
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are used as directed.

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If any of your farm wagons need new wheels, don't use wooden wheels again. Put on Dominion Low Wide-tire Steel Wheels. They are cheaper, lighter and stronger than wooden wheels. Guaranteed not to break in coldest weather, or on rockiest roads. Wide tires save roads, and make pulling easier for horses. Will last a lifetime. Made to fit any axle. Pay for themselves first season.

The Dominion Handy Wagon saves half you, labor and time in loading and inloading. Widestro: low wheels

Wide-tire, fow wheels save roads and horses. Parts are arranged for easy draft. Saves its



Forest City Business and Shorthand College

THE SPICE OF LIFE.

President McCrea, of the Pennsylvania Railroad, in his study of all classes of men who are under him, entertains a great admiration for the Irish foreman of a gang of laborers, who went to any lengths to show his men that he was the real boss. One morning this foreman found that his gang had put a hand-car on the track without his orders.

"Who put that han car-r-r on the thrack?" he asked.

"We did, sor," one of the men answered respectfully

"Well," he said, shortly, "take it off ag'in.'

The laborers did so with some difficulty. "Now," said the foreman, "put it on ag'in'

King Edward's good nature was illustrated by a London correspondent at the Press Club in New York.

"The King," said the correspondent, was visiting Rufford Abbey, and one morning, in company with his host, Lord Arthur Savile, he took a walk over the preserves

Suddenly Lord Arthur, a big, burly man, rushed forward and seized a shabby fellow with a dead pheasant protruding from the breast of his coat.

'Sir,' said Lord Arthur to the King, 'this fellow is a bad egg. This is the second time I've caught him poaching.'

"But the King's handsome face beamed, and he laughed his gay and tolerant

''Oh, let him go,' he said. 'If he really were a bad egg, you know, he vouldn't poach.

A STRAIGHT TIP.

A man who had a country place on ong Island came to New York one morning to do a little speculating. He was a great believer in tips.

On the ferry boat it came to him that ne had had, somehow, a tip on oats. He couldn't remember just what it was, but somebody had told him to buy oats. So, when he reached his broker's office, he looked into oats a bit and bought some. Oats was active. He pyramided skillfully, and by the close of the market was seven thousand dollars ahead.

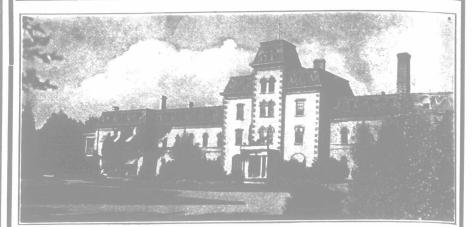
Of course, such luck as that had to be celebrated, and it was. As the celebration went on, the oats-buyer told the story several times, and each time took on importance in the recital as an oatsbuyer, until he finally became the Oats King. He reached his railroad station somewhat late and found his stableman vaiting for him with a trap.

"By the way," said the stableman, "did you remember to get that five bushels of oats I asked you to buy this morning?"

A VERY OLD TROUBLE

Whenever the stock market is ailingbecause the spring-wheat country needs rain, or because Mr. Morgan is said to have indigestion, or the Interstate Commerce Commission makes a new ruling-a gloomy chorus repeats that the bases of financial calculation have been radically changed within five years because a brandnew factor has been introduced-namely. the invasion, by the Government, of the field of private business enterprise.

Covernment has been invading the field of private business enterprise time out of mind. For example, Crassus was the ablest captain of industry of his day. "Observing," says Plutarch, "how liable the city was to fires, by reason of the houses standing so near together," he trained a large body of slaves until they became expert fire-fighters. When a fire proke out. Crassus promptly appeared, to buy the houses that were on fire the danger and uncertainty, the proorietors were willing to part with for little or nothing." Having bought the cuses, Crassus turned loose his fire he greatest part of Rome at one time or another came into his hands." That vas certainly a splendid stroke of private husiness enterprise. But in the course of time Augustus organized fire companies. and put out the fire for nothing. The



The Ontario Agricultural College GUELPH, CANADA,

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Our course in Agriculture is designed not only to make specially-trained agriculturists, but also educated men. A young man should have good public-school training, as well as good farm practice, before coming here. The course supplements this training, but does not repeat it. Send for a copy of our new calendar. It will be mailed free on application to:

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Peerless Farm and Ornamental Gates

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made of heavy steel tubing electrically welded into one solid piece. The Peerless

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The Farmer's Mavocate

"Persevere and Succeed.'

and Home Magazine Established 1866.

Vol. XLV.

EDITORIAL.

Sixteen housand, seven hundred and seventy boxes of strawberries from one and one-fifth acres, of Elgin County. Read about his methods.

Jupiter may drown, parch, freeze or (hail) stone the crops of the West, but he cannot quench the indomitable optimism of her people. Already, Western philosophers have bobbed up serenely with the assurance that this partial crop failure was just what the country needed-will almost be the making of it, in fact. It will impress needed lessons of better farming upon prairie settlers. Great is pluck. We need more of it in the East.

If Sir Wilfrid Laurier is not a free-trader when he returns from his Western tour, it will not be for the lack of aggressive tutelage at the hands of Western farmers. Their demands for lower tariff have been insistent and persistent. Let us hope they will bear some fruit. Indeed, the Premier broadened, and has declared for another tariff obtained. commission of inquiry, with a view to revision downwards.

manufacture or sale within the confines of the the one worth while.

American publications, officials and private citizens, anxious to stem the northward emigrafavorable season in parts of the Canadian West to should be to reform the law-really reform it, we sure grip now on mother earth, and began to point a moral against their good substantial farmers leaving God's country for the cheap lands of the Canadian West, under the sovereignty of an "uncongenial government." "There is a reason," they say, "for the cheapness of the lands." All of which is easy enough to see through. The remarkable fact is the convenience with which they overlook the still more severe drouth and crop failure in parts of their own Northwest.

To lew men has it been given to make a more radical impress upon the agriculture of a country than to the late William Rennie, who, for six years, in the capacity of Farm Superintendent at the Ontario Agricultural College, preached the gospel of clover, short rotation and humus. One of his special aims was to keep the humus in the ore; of the soil, where it might be abunean to exercise a marked ameliorating effect, ask ad of distributing it throughout eight or ten caches of depth. For subsoiling he deargely upon clover roots. There are, of any phases of the problem of deep versus lowing, but Mr. Rennie's plan has worked on the College farm at Guelph, and on thers throughout the country. At all teaching, even if extreme, has been of I. and certain it is that in this and is he has made a deep impression on armers, because he stood for definite (and as and advocated them with convinc-

LONDON, ONTARIO, AUGUST 4, 1910 The Function of Judges.

Some might think, from the methods usually in vogue, that the special duties of judges at our township and county fairs are to appear superioris the extraordinary yield reported by W. Walker, ty wise, and as the classes come before them to direct the awarding of the prizes. But such is nical requirements regarding framing of indictnot their chief function. When it is called to mind that the function of an exhibition is educative, the duties of judges are more readily arrived at. While high, and harbors many a rat, but we believe its the fair management awards cash prizes to the shadow begins to grow less. best animals, it does so as an inducement to bring these animals out, and so make their fair most instructive. But the basic purpose of fairs is to accomplish an improvement in all lines represented in their prize lists. The simple judging of the for one moment comparable with the legerdemain stock is incidental; the real benefits arise from the of fruitfulness and growth as seen in the corn clear, concise, accurate statement of the reasons why awards are so placed. Judges cannot serve their purpose in any full degree if they fail to tell why fair managers lose an opportunity to make the most of their exhibition when they do not instruct the judges to explain their placings. Not every good judge can state his reasons clearly, has already confessed that his ideas have been yet most can, and the services of these should be and cereal production at its very best. One day

every quarter after it is all over. As it is now, every exhibitor in the smaller fairs thinks he has a death of the outer shell that helped to resurrect Ireland appears to be having her trouble with about the best in the ring, but all cannot get to the living germ within. A little green spike the margarine vendors. This industry, like the the top. No reason is given why some go up and shouldered its way up through the earth to the others go down, and the losers cannot understand; light, and as the roots spread this way and that, cult to eradicate or control. While there is no they too hurriedly assume a partiality on the a myriad of fibres drank in the water-dissolved inherent reason why oleomargarine should not be part of the judge. Usually, a two to five minute fertility, giving the plantlet strength and submade in any given country, and sold to those who talk will clearly show just why things went as they stance to begin the struggle for existence with a wish to buy it, the abuse comes in its surreptitious did. The reasons are generally patent when once host of predatory weed pests whose seeds were alsubstitution for butter—a form of fraud facilitated pointed out; the exhibitors not only are satis- ready in possession. With harrow and hoe and The dark and devious ways of the fied, but have learned something. Similarly, the weeder we came to the rescue, and gave the corn margarine manufacturers are what justify such a ringside have been taught. For everything except a fighting chance, to which it nobly responded. In federal law as Canada possesses, prohibiting either the largest shows, a tactful, explaining judge is the end, the weeds were subdued and driven out,

Reducing the Monstrosities of the Law.

mean. Abolish the slavish regard for precedent and technicality, cut out technical appeals, and place the administration of the law more squarely upon a basis of equity and fact, after the principle of the Railway Commission procedure and decisions. We submit that it is time the intelligent citizens of this and other countries ceased throttling justice with monstrous legal systems. In the United States, where, even more than with us, court practice has been maintained for the profit of the lawyers, the interests of justice being a convenient football with which to play the game, there are encouraging evidences of change. Before the U.S. House Judiciary Committee last winter, it was said that, with one exception, in the proceedings of all State bar associations during the year, reform of judicial procedure held a chief place. A number of lawyers' conventions, attracting delegates from several States, have devoted themselves to procedural reform.

What is still more hopeful," says the Journal of the American Institute of Criminal Law and Criminology, "is the changed attitude some of the courts are beginning to take toward technicality in the decision of cases." In Oklahoma, by clerical oversight, a constitutional phrase was omitted from an indictment. Refusing to annul the indictment, the Supreme Court of the State said: "We are determined to do all in our power to place our criminal jurisprudence on the sure glory of the corn ends not in the field, but as food foundations of reason and justice. If we place it for man and beast issues into a never-ending round upon a technical basis, it will become the luxury of new life

of the rich, who can always hire skilled lawyers to invoke technicalities. . . . We confess to a want of respect for precedents which were found in the rubbish of Noah's Ark." The Supreme Court of Wisconsin, says the Journal, has recently taken a similar attitude, declaring that many of the tech-

No. 932

ments are nothing but "rhetorical rubbish." The rubbish heap in our jurisprudence, comments the Saturday Evening Post, is still mountain-

The Glory of the Corn.

We talk of mystery and magic, but there is none field. The novelty-craving townsman gapes openeyed at the tawdry imitations on the stage of the travelling wonder-worker, with his handkerchiefs, and knives, artificial flowers, ropes and cabinets; but for real, entrancing marvels, commend us to the cornfield, with its fragrant luxury of pure air in May we dropped the dry kernels under an inch Giving reasons makes for a better feeling in of soil, mellowed and enriched, where, with damp and cold, they were like to die. In fact, it was reformers and educators of the youth may draw a wholesome moral. While the training seemed like a rigorous hardship, the coming crop throve under it, even when we roughly harried the rows with the two-horse cultivator; but the stalks had a ter the sun, the faster they grew. Great flapping bands of green waved in the wind, throwing back in the face of the sun a thousand glinting reflections. Corn, like animals, needs exercise, and nature sees that there is no lack of it, in order to opening pores, strengthening fibres and vigorous growth. Presently we see the luxuriance of plumed stalks ten and twelve feet high, tossing like the sea itself. Corn likes cleanliness, and if there are no showers by day, under the shadows of night the naked arms of green are washed down with the dews, and from air and soil it gathers in sustenance, and grows from strength to strength. The men of the corn belt will tell you that corn has growing pains, which are heard in the titanic rustle and murmur when the vast fields are stirred by the breezes of night. By and by the plant begins to flower, and the rows of auburn tassels sway like the plumes of an old-fashioned army. Then comes the mystery of the pollen which falls to fructify the silk-clad ears forming on the stalk below with a prodigality that knows no limit. In such profusion is this vitalizing dust scattered that Nature seems to design that not a single kernel shall miss the chance of reproduction. The August and early September days push along the process of maturing in haf and ear for the shock or the crib, the silo or the corn-flake factory. The

THE FARMER'S ADVOCATE

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

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When Good Farming Tells.

Tests reveal the weak spots. Anyone can grow crops when all conditions are favorable. Science and skill avail most against drouth and adversity. It has proven so this year in the West. C. H. Moore, an American, returned to Spokane from a 4,000-mile tour in Northern and Western Canada, had this to say of what he saw:

North of a line that would pass from Calgary, Alta., to Saskatoon, Sask., I found that where the farmers practiced dry-farming methods the crops are in excellent condition, while to the south of the line indicated many of the growers appear to be wedded to slipshod methods, and their crops show it.

Many farmers have "stubbed in" their grain, and have recklessly put grain in poorly-broken ground. Wherever such methods have been used, the crop prospects are poor. On the other hand, where better methods were used, the crops look fine. This is especially noticeable in the districts north of the Calgary-Saskatoon line.

There the farmers are raising wheat, oats, barley, flax, timothy, broom-grass, and large quantities of wild hay. Harvesting will begin soon, in fact, some of the farmers are already at work. This shows what can be done by the practice of dry-farming principles. There should be more of it in the drier districts in the Western part of the Dominion of Canada.

The farmers are practicing dry farming, it is true, but not as thoroughly as they should. Many turn over the sod, and, instead of packing it and working it once, they permit it to remain for days, and thus practically lose all of its mois ture. They then cut if up with disks, only to find that it has receive so hard that the growing of crops is an almost happeless proposition. An other practice that has cost the farmers much move the event of the second view will be stooged.

the destable of the best I have ever seen for the resolve of dry farming. The country backconsiderable term, but the conservator of mossume is necessary. That is the secret or dry farming making the most of the rainfall.

His observations are not without significance for Unstern Laureus

Discrimination According to Quality.

"While there are many good points in Mr. Flavelle's letter, I think he has laid himself open to a fine retort on one score," remarked a well-informed professional man to "The Farmer's Advocate" recently. "While criticising farmers for their shortcomings, what has he done in a practical way to bring about discrimination, according to quality, in the buying of hogs? If the type and condition of hogs is as important in catering to the Wiltshire trade as we were told ten years ago, surely the buyers could find some way to insure the payment of a premium for the grade of stock they wanted. But there the managers sit, declaring it can't be done."

With this criticism we are disposed to agree. It may be that nowadays decreasing production of hogs and increasing home demand for lard have lessened the margin of value to the packers between singers and common stuff, and that the home demand has enabled packers to dispose of a considerable amount of pork from inferior types to about as good advantage as that from selects converted into Wiltshires. Probably the packers reckoned that the ratio of production as between selects and culls would be maintained, and that they would still be able to secure a sufficient quota of selects to supply their Old Country trade. However this may be, we maintain, as we pointed out years ago, that unless some slight advantage is accorded the man who seeks by care and enterprise to produce the right class (whether it cost him more or not), the tendency will inevitably be to relax effort, and drift back to the raising of miscellaneous lots, with a partiality toward thick fats. In their failure to realize and attempt to stem such tendency, we believe Canadian packers have been unwise. Either that, or the stress formerly placed on bacon type was grossly exaggerated. Chickens come home to roost. The man who will not pay for quality need not expect to get quality.

At the same time, we maintain there is good money in hog-raising on Canadian farms, and are convinced that it will pay to go on producing pork steadily, and especially to swim a little extra strong when the crowd get cramps and come out of the water. Whatever the packer does or does not do, is no reason why we should not make full use of our opportunities.

Cheesemaking in Brockville District.

That a cheese factory be successful, the following requirements are essential; A modern building and equipment; a capable, progressive maker, and much milk of good quality. Given these three factors (and they are interdependent), a profitable business will result. It is a rather peculiar situation, but the presence or absence of these factors is governed to quite an extent in Fastern Ontario by the ownership of the plant.

Modern building and equipment in cheese factories, among other things, demands provision for pasteurization of whey, proper disposal of sewage, and cool curing rooms. Cheesemaking is not child's play, and only men with brains who have studied out continue to study, who are ambitious, can succeed. More than an apprenticeship must be served, attendance upon the dairy schools is very desirable; sanitation, ventilation, plumbing, chemistry, bacteriology, are a few of the many branches to be mastered and practiced. Men of this type who will or can afford to parsue these studies are called forth only by factories wherein much milk is made into cheese—where more than \$500 a month is paid.

In Ontario, and especially in Eastern Ontario, most of the cheese factories are privately owned. The proprietor receives from one cent to a cent and a quarter for making, out of which he hires the maker, makes repairs, pays interest, and makes improvement. The margin is not sufficient for him to more than live, and does not metify extensive improvement. Furthermore, his patrons, having no investment in the plant, are free to come or go, as they choose. Slight provocation irreprently arosses a competitor to build within the same territies.

There are nearly one thousand factories in the articles at a Foronto, out of these, only about event, are point-stock incorres. There are three actories in the Brockville section that have cool miner rooms, one is the Kengdyr'le section, three

in the Ottawa section, and three in the Gananoque section. Going west, more are found, going east in Ontario, none. The number of factories has been increasing. Where, a few years ago. one large factory served for a radius of four or five miles, are found now three or four factories . and yet the total amount of milk made up is practically unchanged. These smaller factories work ruin to the cheese interests. The only argument in their favor is that they are conveniently located for the few patrons sending to them. They do not furnish enough milk to pay a capable cheesemaker, nor enough profit to encourage the owner in improvements. Consequently, these little factories that have sprung up, and are springing up at every cross-road, are cheaply built, lack curing facilities, are insanitary, and frequently are run by makers who do not know the conditions demanded for successful cheesemaking. This was the great fault of the cheese situation, as seen in a recent trip of inspection through the Brockville district. And wherever the small factory was encountered, the evils indicated prevailed. There should be a law, rigidly enforced, which would prevent such unnecessary and unfortunate crowding of factories.

Unless steps are taken to prevent the further crowding of factories, and to do away with many we now have, the cheese industry, instead of advancing, must retrograde. At this point, the value of co-operation is evidenced, and wherever such factories are encountered, they typify the best that is to be found.

Farmers and Their Parasites.

Editor "The Farmer's Advocate

I have been much interested in J. W. Flavelle's open letter to the Minister of Agriculture for Ontario. and in the consequent discussion in your coulmns, and, as the subject is not likely to become quickly exhausted, I beg leave to add my quota.

To a certain extent Mr. Flavelle's criticism is quite true: True that the demand for certain classes of foodstuffs has increased wonderfully during the last few years, and true, also, that Ontario iarms are not producing anything like what is possible for them. The production of Danish farms is so much greater than ours that it must shame us to have the comparison made. is not true that, considering the undermanning of Ontario farms, and the unfavorable climatic conditions of the last few years, Ontario agriculture has absolutely declined. This point has been discussed at some length in the editorial columns of the Weekly Sun, and a very effective reply made to Mr. Flavelle's indictment along this particular Nor is it true that the Ontario farmer is doing little to improve his property and increase Anyone who travels at all cannot help noticing the way in which farm buildings are being improved and silos erected, and the tile manufacturers can certainly give evidence as to the rapid increase in the rate of underdrainage. But, there is a basis of soundness in it that gives just cause for serious thought. Why is it that Ontario agriculture is not advancing as rapidly as it In the answer to this question is the

I take sharp issue with Mr. Flavelle when he says that "The farmers of this and other Provinces have been diverted from enterprise, and have been encouraged to look for returns through agrtation, frequently ungenerous, and generally wrong, which has had for its keynote that farmers were being deprived by the greed of others of a legitimate share of the returns for their labor." Mr. Flavelle will find that farm journals, the press generally, and the various Departments of Agriculture, which are all doing splendid educational work along technically agricultural lines, are also pleading for economic sustice; and he will find that those farmers who are identified with the agitations to which he has alluded are by no means the unprogressive, unenterprising section of the rural community. In fact, taking things on the whole, those who are doing the best work for progressive agriculture are also most prominent in demanding economic justice for the farmer. To take one example, which, as it does not touch the bacon-hog controversy, cannot be said to be a direct thrust at Mr. Flavelle, I will refer to the tariff. There is a general concurrence of opinion among farm journals and independent farm organizations throughout the whole of Canada that protectionism is a curse to our country; that its practice robs our farmers of "a legitimate share of the re-turns for their labor," and that it, instead of the lack of intelligence and capacity, may account in culture. It is quit, true that a community can, only to the last analysis secure results from its own "intelligences sound sense and industry But it is also true that those individuals who apply both intelligence sound sense and indistry kville dis-

lly as it on is the when he ther Prov-. and have rough agially wrong, mers were of a legiti-or." Mr. press gengriculture, ional work also pleadfind that the agitameans the f the rural the whole, progressive demanding ke one exbacon-hog rect thrust iff. There nong farm ganizations protection-ts practice e of the retead of the nunity can.

industry duals who to their business may have their earnings transferred to some idle parasite's pocket through unjust taxation or legislation. And to a large extent this has been the case in Canada, until now it begins to effect its own cure in the relative decadence of agriculture. Mr. Flavelle's business feels the pinch, and many residents of cities who have adopted "high living" are feeling the pinch; but, nevertheless, good is likely to come out of it.

Mr. Flavelle complains that " more extensive farming, instead of intensive farming, is being In some sections this is true, and, adopted." considering the great decline in our rural popula tion, could hardly be unexpected. But why is it, and who is responsible? Is the farmer chiefly to blame, or is it the commercial magnate and his satellites. Why do our young people leave the farm for the city? Who sets those standards of high living that have been the constant aslurements of city life, and have been held up as prizes in the great urlan lottery? Who but the vested interests, subsidized corporations and "protected" industries overhid the farmer in the labor market?

Seven years ago, writing in the O. A. C. Review, I said (speaking of influences militating against agriculture). Such curtailment renders the voagriculture; cation of agriculture somewhat arduous, and hence we have rural depopulation. It is true that, by improved methods, the producing power of the farmer can be greatly increased, and, if one-half of his earnings is normally swallowed up by social parasites, he may still thus maintain his position. When caught between the upper and nether millstones, he might as well 'grin and hear it.' he can but slightly affect the price at which his commodities sell, he can, at least, considerably affect the cost of production. So far, so good. Yet one should not be blind to the fact that the general moral character and tastes of those with whom he has direct or indirect dealings (and the circle is by no means small) will determine the adequacy or inadequacy of the material reward of

"To remady such evil conditions as I have alluded to, instruction in scientific agriculture is, in itself, powerless. It may partly offset or neutralize the evil results in two ways: First, by increasing the agriculturist's power over nature and secondly, by developing in him a love and appreciation of his occupation, so that a strong bond of attachment may exist between him and his work. This much it may do, and, in a measure, is doing. It is, in its way, no small thing, and should be rightly valued. .

Since the above was written, I have been engaged in practical agriculture, and know something of conditions from the farmer's point of I have done something in the way of increasing production, having practically doubled the output of the farm in seven years. I have invested every bit of savings in the farm, in improved stock, buildings, equipment and drainage. But there is another It pays me good interest. of the whole question that needs to be drawn to Mr. Flavelle's attention. Some of my neighbors are not as ambitious as I have been, and find that they can get on passably well with much less labor. They do not bother much with cows, chickens or pigs. Why should they multiply effort for themselves and families, and make life a burden? Hired help is scarce and unreliable, and they cannot, like Mr. Flavelle, live in a mansion in Queen's Park, while their workmen are relegated to the slums. Why not go in more for grain and get a little leisure and enjoyment out of life? What if the proceeds are smaller We are not inclined to live extravagantly, and have enough as it is. We keep our straw, most of our hay, and enough stock to maintain the fertility of our farms We keep enough chickens to supply ourselves with eggs. What need have we to cater to the city? Such is the attitude, expressed or unexpressed. Selfish, is it? Yes, in a measure; out if the farmer can do well enough without keeping many pigs, Mr. Flavelle will find it hard to argue him into the business, and, as all other industries are based on agriculture, they feel keenly There will the pinch of decreased production. have to be a gradual reinstatement of agriculture. a driving of people back to the farms, newer and better ideals in education, simpler modes of living. etc. and then conditions will become more normal. In Denmark, and the other Scandinavian countries, where agriculture stands pre-eminent, they have a real agricultural democracy: a happy, contented and educated peasantry, and few millionaires, with their consequent following of parasitic satellites. We have corrupt and extravagant standards of living and are beginning to cry out because the shoe pinches. After all, the talk about the high cost of lying is really about the "cost of high liv-It is the luxuries (or what used to be luxures) that show such decided advances in prices. Flour, patmeal, peas, beans, and even butter, milk and threse, have not advanced very materially in and if people would buy the cheaper kinds there would be very little complaint of All the outcry voiced by Mr. Flavelle's s symptomatic or social diseases—waste agance, unfair distribution of wealth, and th: and, if the Canadian farmer has not duced to the condition of ignorance and al mefficiency of the Russian peasant, it is

not because the same evil forces have not been at work here as there.

What would Mr. Flavelle say if I were to fol low the example of some of my neighbors, and curtail production along certain lines? The labor problem is acute, and cows have to be milked seven days in the week. The market for dairy products, though good, is, for me, uncertain. Why should I not let the calves run with the cows, and make things a little easier? Why should I tie myseli, and have scarcely any time for reading, travelling, and the like, for the sake of more prof its? Really, I am strongly tempted to curtail production, and, if I do not do so, it will be hecause I am somewhat influenced by patriotic motives, and, moreover, do not like to see standing

idle the capital which I have invested.

If I have been personal, I hope I have made references mainly to myself, and have not transgressed the regulations laid down for this discussion. May I, in conclusion, express the wish that Mr. Flavelle invest some of his surplus capital in farming, and show us by personal example what the enterprise and fine courage of the successful business man can accomplish when applied to agriculture. Such an example would be worth a W. C. GOOD. Tile of sermons. Brant Co., Ont.

The New P. E. Island Experimental Farm.

SOME ACCOUNT OF THE PROGRESS BEING MADE.

The long-expected and much-needed experimental farm for P. E. Island has come at last and got down to business, and is already making a good showing under the management of Superintendent J. A. Clark, B. S. A. Conveniently situated just outside the city limits of Charlottetown, on the Mount Edward Road, on rising ground overlooking the city, it is fast becoming one of the most beautiful spots of the "Garden of the Gulf."

During a recent visit we noted the many improvenents already made in the appearance of the place. Unsightly fences, with their straggling rows of trees, have been removed, and fields and plots laid off, with paths and driveways between. Ornamental trees that were too near the house have been cut away, and the residence thoroughly remodelied, all giving such a different appearance

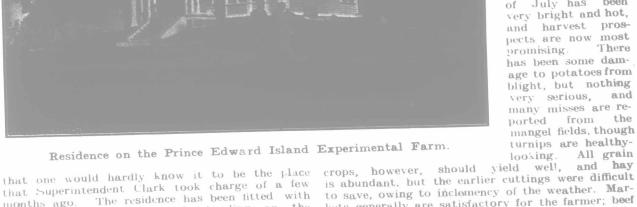
On the opposite side of the farm, and near the residence, an orchard of five acres has been set to apple, cherry, plum and pear trees, and there is a half acre in small bush fruits of many varieties, and another half acre in vegetables; also a plot in which a lot of different varieties of grapes are being tested. The lawn round the residence, the walks and boders of the driveway, are planted with ornamental shrubs of rare kinds and Leautiful selections of flowers, and the driveway, from the entrance, is lined with beautiful shade trees. residence has been remodelled, and fitted with all modern improvements. It is situated on the nighest land on the farm, and commands a fine view of the city and country to the south. After a few years, when the plantings in the orchard and lawn have had time to grow, and the farm has been all brought into the highest state of cultivation, this will be one of the most beautiful spots in the "Garden of the Gulf," Nature has done much for it, and the skill of Dr. Saunders and the superintendent will do the rest. This farm will be of great advantage to P. E. Island agriculture, as the experiments conducted here are under conditions of soil and climate similar to those of the whole Province. At the time of our visit, the Superintendent had just completed the surveys for underdraining a large part of the farm, and will have the tiles laid this season. This year's experience has indicated the portions This matter of undermost in need of draining. draining will also be an object-lesson to our farmers, as there is much of our soil would be benefited by it. It now remain for farmers to watch closely these experiments, which are being carried on at the public expense for their benefit, and get all the information possible about the kinds of cereals, vegetables, roots and fruit that succeed best here, in order that the produce of the farms may be largely increased as a result of the establishment of this agricultural experiment station. Visitors will find the superintendent ever ready to give information about all matters connected with the WALTER SIMPSON. farm.

Notes from Ireland.

THE SEASON.

In pleasing contrast with the prolonged drouth, which, I regret to hear, has caused great anxiety to Western Canadian farmers, the season, up to

the present, has, on the whole, been very favorable to crops in Ireland. The year opened abnormally wet, but seeds were sown under very satisfactory conditions in March and April. Subsequent harsh weather tarded growth, but a warm, rainy June encouraged rapid vegetation. The rainfall for the month was the heaviest for the past twenty-five years. The first half of July has very bright and hot, and harvest prospects are now most There promising. has been some damage to potatoes from blight, but nothing very serious, and many misses are reported from the mangel fields, though turnips are healthy-



is abundant, but the earlier cuttings were difficult to save, owing to inclemency of the weather. Markets generally are satisfactory for the farmer; beef has been fetching big prices, and for many weeks mutton was also worth high values, though a tendency towards cheapness has again set in. There is still money in pork, prices being steady for the best grades at 60s. per cwt., and over.

THE MARGARINE MARAUDERS.

Just as it has been in the United States, on your side of the Atlantic, so in Ireland, producers of honest butter have suffered long from the margarine imposition, and with us the ardent prevails that success will crown the efforts of Mr. Kilbride, M. P., who has introduced a new bill aiming at the prohibition of the coloring of this concoction to imitate the genuine article. Last year, the combined opposition of the grocery trade and the margarine manufacturers defeated a simi-It is simply a scandal that any Government should leave not only the farmer, but lar measure. also the unsuspecting consumer, unprotected against the frauds that are perpetrated on them by the substitution of a spurious material for butter. Several prosecutions in Dublin and elsewhere show the extent of the dishonest practice, but what means a £20 fine to a man making perhaps thousands out of the nefarious business? Mr.



Residence on the Prince Edward Island Experimental Farm.

that Superintendent Clark took charge of a few months ago. The residence has been fitted with all modern conveniences, and, standing on the highest part of the farm, commands a fine view of The P. E. the city and surrounding country. Island Railway skirts the farm its entire length on the western side, affording an excellent view to the travelling public of the experimental plots. Comparative tests are being carried on in 1-100acre plots. There are 16 varieties of wheat under Besides the old standard kinds, there are a number of the cross-bred kinds that are most promising.

Of oats there are 22 varieties, growing side by side in the plots. These plots contain some of the standard varieties, and the rest are newer and promising kinds. There are eleven varieties of two-rowed barley, and twelve of six-rowed, also in the comparative tests, and thirteen varieties of There are a number of quarter-acre plots peas. of leading varieties of wheat, among which is the Marquis, originated at the Central Experimental Farm, Ottawa, which promises to rival, it not surpass, the famous Red Fife both in yield and quality. A trial is also being made with alfalfa, sown with and without a nurse crop.

At the time of our visit (July 8th) the grain in the experimental plots had made a fine growth, and we noted that they were very free from weeds.

Kilbride's bill goes to the root of the matter, and, though it is certain to be spiritedly contested, let it be hoped that, in the interests of fair play and commercial uprightness, it will emerge completely triumphant.

"THE TEAR"-

Agriculturally speaking, the interesting problem of the political situation is the anomalous position of T. W. Russell, Vice-President of the Department of Agriculture. The ostensible reasons why Sir Horace Plunkett was removed from office a few years ago (to make room for Mr. Russell), was in order to establish for all time the principle that the occupant of the position should be a member At the last election, Mr. Russell of Parliament. was unseated, but still he has been left in office. What an interesting story could be written about the whole situation and the various underlying influences at work; what a light it would cast on Ireland's management under the party system! But I must not go out of bounds.

We are once more in the throes of a bitter controversy concerning the State subsidy of the cooperative movement, and more trouble has been precipitated by some indiscreet allegations made by Mr. Russell against Credit Banks established by the Organization Society. Another battleground is furnished (as I anticipated in my letter in the issue of "The Farmer's Advocate" for the 2nd June) by the suggestions contained in the Departmental Committee's report on Irish Dairying, as to complete inspection of creameries by officers of the Department. All over the country creameries are up in arms against the ambition of the Department in grasping for extra powers and authority over these voluntary enterprises of the farmers

-" AND THE SMILE."

To turn to something more pleasant, I am glad to say that we have been promised a further grant of one million pounds towards the provision of more laborers' cottages in Ireland. Even this will not completely dispose of the matter, but it will go a long way to help. With comfortable housing and the granting of a decent plot of ground, at a nominal rent, there will be some hope of keeping workers in the country. In some districts there are definite results along this line already observable. Another interesting movement dealing with the labor question has lately been launched in the City of Dublin, where several tracts of vacant land have been distributed to selected applicants from the poorer classes, who have promised to go in for vegetable-growing. To start with, seeds have been provided free, and tools obtained on the easiest terms, while an instructor has been engaged, and is being partly paid by the Department of Agriculture. scheme is being watched with great interest, and it is to be worked more as a practical business matter than an attempt at charity. There is much latent agricultural ability submerged in the slums of our big cities, and all the while our farmers are crying for more workers. Many may be led by this and other agencies to return to a healthy country life. It is, at any rate, significant to find that, through the instrumentality of the Labor Exchanges, from 20 to 25 men are being sent out of Dublin each week for agricultural work in the country

A RESEARCH STATION.

An urgent want in Ireland, as in every extenfor systematic inquiry and investigation into animal diseases. Everybody admits this need, but the authorities, though sympathetic, plead that there is no money available for the purpose. Hopes exist, however, that out of the Development Fund some help will be forthcoming. If all went to all, a bull premium could be withdrawn from each county, and this would set free nearly \$500 a year towards the working of the station. Plenty of material exists for research, such as the cause of sterility in our cows, red water in cattle, and other sources of loss to stock-owners. Let me briefly refer to one animal pest—the warble fly which, by reason of the damage it causes by rid dling the hide, as well as by the loss of condition in the beast, is estimated to cost the Irish farmer millions of pounds each year. Even among practical cattlemen and eminent scientists very diversiviews prevail as to the true habits of this fly and the manner in which it gains access to the an mal's body. Some hold that the eggs are laid on the back, and when Matched they burrow in aud develop under the skin. Careful observations of the other hand, suggest that the eggs get on the legs of the cattle, are licked into the month hatched, and thence work their way is and in Different estations are also hald as he the effects

benefit greatly. Perhaps our research station will do the needful with this and other pests—when we get it. "EMERALD ISLE." July 14th, 1910.

HORSES.

In these busy days, the care of the horse must not be forgotten. Grooming is just as essential to a house's comfort and health in summer as in winter. The horse sweats a great deal, comes into the stable wet and full of perspiration. In an hour or so he cools out, and the dirt forms almost a crust over the animal. Then, too, the itching annoyance of the biting flies makes a brushing most acceptable. Turning the horses out at night where they may roll, partially relieves this distress, but what they should have is a thorough grooming. A half hour with a good comb and brush in vigorous hands should be devoted to each animal every night. The comb should be used sparingly, as the use of it too freely is likely to cause more harm than good; a good brush will usually accomplish most functions of the comb, without working any injury

Much trouble with overheated horses is likely to occur during the next few weeks of hot weather when the press of saving the year's crops is great-The harvest is ready, and binding is heavy work on the teams: the days are long, the sun glaringly hot, and the ground more than warm. In his eagerness to get as much cut as possible, the driver may easily overdo his horses, especially the inside ones. Whatever the exact physiological results may be, the apparent effects of overheating are evident. The horse pants, does not sweat. becomes harsh in the coat and tight in the skin; the animal cannot perform much work in hot weather, and is slow to recover normal conditions Frequent watering of the animals when again. at hot, heavy work, is one of the best preventive It may be inconvenient to take a barrel of water to the harvest field, but, as a humane and profitable preventive measure, it is to be recommended during the very busy, hot hartest

Horse-breeding Rules.

Mr. Robert Pratt, J. P., once laid down several rules to be observed in the breeding of horses, says our English contemporary, the Agricultural Gazette. His nine negative rules were laid down as things to be carefully avoided and guarded against. His five positive rules pointed to those things which are to be selected and chosen. The several rules are set out below:

NEGATIVE.

Unhealthy or unsound animals should never be used.

Ill-tempered animals should never be used.

Parents that are greatly dissimilar in their breed and shapes should not be mated to breed. Great big stallions and small mares should never be mated to breed.

Half-bred stallions of any breed should not be used.

Avoid breeding in-and-in. Do not breed from coarse, loose-made mares or

horses.

Do not breed from black or gray mares or horses

Do not breed from mares and horses which, having bred, produced had colts.

POSITIVE.

Determine exactly in your own mind the character of the horse you wish to produce, and never lose sight of it.

Avail of any opportunity that offers to procure the finest animals and blood that will suit your purpose.

To breed half-bred horses, select a pure Thoroughbred horse and a big half-bred mare; the better bred she is, the more valuable she will be.

To breed weight-carrying hunters, select a

neatly-made, large, roomy, healthy, young, well-shaped, sound, well-bred mare, with good temper and good action, or a tried mare that has been successful.

To breed weight-carrying hunters, select a pure, Thoroughbred stallion, compact, well-shaped, sound, healthy, vigorous, with good temper and good action, and one that is the sire of good running horses, and that has got good weight-carrying hunters.

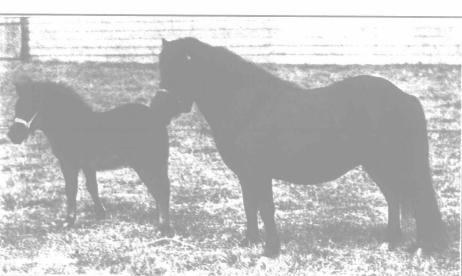
Care of Army Horses.

In the United States army, the troopers' horses

and transport mules all weigh from 1,000 to 1,200 pounds. The daily ration for a horse is 12 pounds oats and 14 pounds timothy hay; for a mule it is 9 pounds oats and 14 pounds of hay. In the winter some corn is usually fed to the mules, but seldom to the horses. Bran is usually kept in supply, but seldom fed. except as a regulator, when the condition of the animals demand it. Halt the grain is fed in the morning, and the balance of the hav fed at night. The animals maintain excellent health

and good condition under such treatment.

After a hard, hot march, the saddles are left on the animals until they cool off, if they are tethered in the sun. If this were not done, the hot sun would blister their backs very quickly. Adding to this the precaution of clean blankets, sore backs are almost an unheard-of ailment, even under the hardest conditions.



Shetland Mare and Foal

The Pony's Value.

The Shetland pony is an excellent plaything for children. It is strong, hardy, intelligent, kind and patient, and affords a great deal of healthy, wholesome, outside exercise for children. But deeper than its value as a plaything is the spirit which, through its agency, is inculcated into the growing children. The children learn to love the pony, to treat it kindly, to care for it when between the shafts, under the saddle, or in the stable. They learn how to harness, to hitch to it g bitting, bridles or saddles, and they learn how to drive. Through the pleasure of learning to do things rightly with the pony, of having their certains look well, there becomes rooted deep in their life a love for horseflesh. When they outgrow the Shetland, they want a little larger one probably the Weish. Later, the Hackney pony becomes best safted to their advancing tastes and inchares they never seek a bager one being captical and with each excellence.

We have not editivated the point sufficiently. Where there are children, there should be a pony, that they may grow as with and forever become to be be seen of horselest. There is no better way a broadening the denand for horses. Neither some there as good a way to overcome the exils on about a and unjust treatment. Indoubtedly there is a splendid opportunity for point breeders also maders who will make a specialty of thes attractive diminutive Poyses. Even the regular horse importers, dealers and breeders can well carry there as a side ine wherewith to create a denant of courter proportions as and of courter proportions.

A Five-dollar Bill for Fall-foals Experience.

Horsemen who have had experience breeding mares in the autumn should not overlook the fail-toals essay competition, announced in the Farm Bulletin Department of our July 28th issue. It is not necessary that one should have had a satisfactory experience in order to discuss this question. The prize may go to the one who reports an infavorable experience. What we are after is to throw light on the question whether or not that he advisable, under certain circumstances, to embedyor to breed mares in the antumn. To this end, a fair and practical scatement of the prosecutions, lased upon actual experience, preticably with both spring and fail fouls, is desired. Look up the annual meant of the competition, and have a traffer that a good large byth.

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LIVE STOCK.

Our Dumb Animals.

Editor "The Farmer's Advocate":

It is surely a noble, Christlike mission to stand up as champions for the cause of mercy, justice and up as chambers to plead for mercy to the poor dumb animals, since they cannot plead themselves in words; to strive to awaken the conscience of cruel men and women to a sense of their sinfulness in the sight of God, is certainly the duty of every true Chris-

The Societies for the Prevention of Cruelty to Animals, although doing their best, cannot possibly reach all the guilty ones. Many cases are not reported, as an informer is often looked upon with contempt; therefore, many poor animals continue to suffer from man's inhumanity. The passionate man lays on the whip unmercifully, totally disregarding his poor horse's mute appeal. It seems to me that the best plan is to ry overcome evil with good. If we who are pleading the cause of mercy can but persuade some cruel men to cuitivate good common sense, and exercise self-control or will-power in the management of their animals, our efforts will not have been in

Tain The earls resulting from giving vent to outbursts of bad temper are manifold. Every fit of passion a man indulges in means loss, spiritually, physically and financially. Surely the offender knows he is doing wrong when he beats or reglects his animals. Conscience tells him so.

As the mind has great power over the body anger seriously affects the health. The animals will thrive better and give better satisfaction or larger returns when treated with kindness than when the conditions are reversed.

The Bible tells as that "He that is slow to anger is better than the mighty, and he that ruleth his spirit than he that taketh a city.

Our kind Creator gave us the animals to work for us, and surely He is much displeased if they are treated with unkindness. Parents should teach their children early in life to be kind to every living thing, and never to rob birds' nests or to tease animals. If the mother loves animals, the children will likely follow her example; it will be born in them. I have in mind a farmer who has a very hasty temper. He has no patience with the animals, but will beat them under the slightest provocation. The cat flies when she sees him coming, for she hasn't forgotten the kicks he has given her. But the wife is very fond of animals, and so are all the children.

There is a truckman in our city who loves his horse almost as well as his wife. He was out of work last summer, and, although he needed money, could not be persuaded to hire his horse, for he was afraid he would be ill-used. He says that the horse is so fond of him that he will follow him all around the yard. Love begets love.

Make friends of your animals; talk to them almost as if they were human beings, and see how pleased they will look. See that they have food and water regularly, and are kept in comfortable quarters. The animals appreciate kindness, cer-If you are kind to them, they will not be afraid of you, for "love casteth out fear.

Several years ago a farmer gave us a fine dog, because he imagined he was becoming cross was the man who was cross not the dog He never tried to bite any person after we got him. A few months after we brought him home his former master called to see him. He spoke to him, but the dog wouldn't go near him. He ran away from him; he hadn't forgotten the whippings, and I suppose he was afraid the former owner was going to take him back. How poor Prince used to come bounding to meet us when we returned from having a ride. What a warm welcome we always received. We loved that dog almost as well as a child, and wouldn't sell him for any money. But one night he went out, and some cruel wretch shot him.

Some hoys take pleasure in teasing or tormenting animals, and pursuits become habits. Cowper aptly defines cruelty as " Detested sport that owes its pleasure to another's pain." Blair says We ought never to sport with pain or distress in any of our amusements, or treat even the mean-

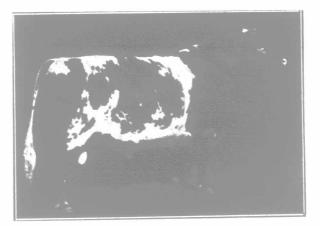
est insect with wanton cruelty. Richardson says. That cruelty which children are remutted to show to birds and other animals wal most probably exert itself on their stores when at years of maturity."

The Vi seem Humane Education Society is dowork in sending thousands of copies in Animals" to editors Who can arount of good may result from the literature advocating kindness to high time that a movement was ball of our animals in this Provhave they suffered from blows and all be up and doing Harnest

he wants a meal. A. R. Honor Roll of Shorthorns.-VII.

By J. C. Snell.

The World's Fair being at Chicago in 1893, the Shorthorn exhibit at Toronto was lighter than usual, a considerable consignment from Canada figuring in the International competition in the White City of the Columbian Exposition, the greatest event of its kind the world has witnessed, where an exceedingly creditable record in prizewinning was made by Canadian-bred Shorthorn and Ayrshire cattle. In the regular class of Shorthorns, by ages, at Chicago, first place in the agedbull section was given to Young Abbotsburn, bred by the Watts, of Salem, Ont., and third to Nonpareil Chief, a splendid roan three-year-old son of Imp. Indian Chief, bred by Arthur Johnston, and purchased from R. & S. Nicholson, of Sylvan, Ont.



St. Valentine.



The Late William B. Watt.



Lord Stanley.

the second winner being Gay Monarch (imp.) shown by J. G. Robbins & Sons, of Indiana. It has been rarely, if ever, that three bulls of the breed, of equal excellence, have met in the same class arrany country, and so closely matched were they that not a few of the Canadian preeders pres ent were of the opinion that the order of their placing might have been reversed without injus tice In the writer's opinion, Aonpared Chief was one of the very best halls he has seen in any country. These three bulls were said to have been otherally weighed at the Exposition Young Abbotsburn weighing 2,900 powids, Gay Monarch 2,450 pounds, and Nonparell Chief 2,540 pounds as a three-year old. J. & W. Russell's white Lord Stanley was first in the yearling-ball section, and later aunior champion Shorthorn buil, and junior

grand champion over all beef breeds. The Russells were second in the two-year-old heifer section, and should have been first, with Centennial Isabella 25th, a massive roam, by Stanley; and they were first for heifer under one year with Centennial Isabella 30th, by the same sire. The same firm had also the first-prize junior herd, under two years old, headed by Lord Stanley (a \$600 prize), the four females being, like the bull, all by this same sire, and three out of the five were white. The first prize, of \$300, for the best four of either sex, under four years old, the get of one bull, was also won by the Russells with the progeny of Stanley. A series of grand-champion competitions was also arranged by the management, open to all beef breeds, the writer being chosen by the Shorthorn exhibitors as one of a committee of three judges, together with John G. Imboden, of Illinois, a feeder of and dealer in beef cattle, whose predi-lections were probably for the Aberdeen-Angus breed, though a thoroughly impartial judge; and Wm. Stocking, of Illinois, a Hereford breeder, a man of fine character. In this competition there was no question of Young Abbotsburn's place in the class for bulls two years and over, but for bulls under two years there was a very close contest between Russell's Lord Stanley and the Angus bull which had won first in his own breed. Here the writer had to do some talking in a quiet way, and succeeded in persuading his colleagues that the white should win over the black in this particular case, not, of course, because he was a Canadian but because of his superior quality. The nadian, but because of his superior quality. smile which suffused the countenance of James Russel when the first-prize ribbon was handed him grew broader and higher when later the \$600 prize for the best young herd, headed by Lord Stanley, was handed him, and again when the first award for the best four calves under a year-a We regret having failed \$300 prize—went his way. to secure a snapshot of him at this juncture of his life, as we have never since succeeded in getting him to face a camera.

A striking instance of difference of opinion of judges was seen in the placing of the graded herds in the competition open to all beef breeds, the first award—the \$1,000 prize—in this case being given to Robbins & Sons' Shorthorn herd which, by another committee, was placed third in the regular Shorthorn class. The writer claims credit for the change, having strongly advocated it when the other members of the committee were undecided as to where to begin the placing. The second and third awards went to Herefords, and fourth and fifth to Shorthorn herds.

The first-prize (graded by ages) Shorthorn herd in the original competition was headed by a leggy red Canadian-bred bull that was fourth in his class, born at Bow Park, and of which, judging from his personal make-up, it might well have been written

"A true patriot he, for be it understood He left his country for his country's good."

The females of the herd must have been reckoned

very strong, when they offset his weakness. In the Robbins herd, to which was given the grand-championship award of \$1,000, over all beef breeds, was a roan yearling heifer named Lady Verbena, which had been purchased late in the season from her breeders, Jas. Gardhouse & Sons, Highfield, Ont., to fill a place in the Indiana herd. She had not been as highly fitted as the other members of the herd, having recently come from the pasture field, and my colleagues balked someon my pointing out the fact that her lack of fitting, which was not her fault, was all that could be said against her, as she was straight, level, smooth and substantial, they became satisfied with the explanation, and agreed. That little heifer, five months later, became the mother of the multi-champion of the Western States circuit in the late nineties, St. Valentine, the doughty roan son of the Duthie-bred Guardsman, carried in utero when his mother was criticised at Chicago. St. Valentine met his Waterloo at the Trans-Mississippi Exposition, at Omaha, in 1898, where the Canadian-bred Nominee, a straight, smooth, roan bull, sold by Capt. Robson to H. F. Brown, of Minnesota, was placed ahead of him. St. Valentine's daughters, notably Ruberta and Rosy O'Grady, a very thick-fleshed pair of roans, made a fine prizewinning record in the States.

(To be continued.)

United States Live-stock Export Trade.

The export trade in live stock from the United States shows marked curtailment. During the twelve months preceding July 1st. 1910, that country exported 125,229 head of cattle, as compared with 190,557 in 1909, and 308 380 in 1908, During the month of June, 1909, six times as many were exported as in June, 1910. During the same year 3,383 hogs were sent abroad, compared to 18,053 one year ago, and 29,300 two years ago. Of sheep, 31,970 were shipped abroad last year compared to 63,200 one year ago, and supost year compared to ha,200 one year ago, and supost two years ago. Decline also characterized the export of heat products of all kinds. Of lard, 250,158 875 pounds went at last year, 511,901,831 the next one year and 189,717,223 two years ago. The total value of meat and dairy products exported last year was \$121.716,-871, compared with \$164.216,275 the year before, and \$199.692.011 of two years ago.

Reports indicate a great activity in sheep circles of many countries this year. Americans, Canadians, Argentinans and Australians have all been buying freely of England's best during the last few months. The high prices paid and the excellence of the purchases made at the Royal Show sale, at Liverpool, demonstrate a great confidence in the mutton-and-wool industries, and a determination to have the best. Oxfords, Hampshires, Shropshires and Southdowns prevailed in the purchases for North America; Romney Marsh, Lincolns and Leicesters being demanded largely in New Zealand, Australia and Argentina.

The life history of the warble fly is still a topic of keen debate among stockmen in the Old Country, just as Canadian farmers used to discuss the question whether wheat turns to chess. The respective positions of the debaters are defined this week b. "Emerald Isle."

THE FARM.

The Sow-thistle Problem.

The sow-thistle problem is exciting a great deal of concern all over Ontario, and nowhere more than in those counties where the opportunity is greatest for forming an opinion as to its seriousness. It is a problem-a very real one-and not a mere exaggerated scare. I do not wish to take an alarmist attitude in regard to it, because I believe that it, like other problems which have preceded it, will find its solution, to the extent. at least, that we shall be able to help ourselves, but I do wish to express satisfaction at the interest which has been already aroused, and to say that, until such interest is shared by all concerned in the matter, there can be little hope of any substantial progress toward the solution for which we are hoping. From the nature of the case, it is evident that much will have to depend on wide spread and intelligent co-operation, for, without this one man's efforts are perennially crippled by the neglect of his neighbor who allows the weed to grow and seed itself. It is, therefore, a prime essential to have the perennial sow thistle dis cussed wherever farmers come together, at the Farmers Institute, in the Farmers' Club, on the farm itself, as well as in the papers, whether local or agricultural, which come into the farmer's home. Where district representatives of the Department of Agriculture are located, they can render good service in bringing the subject to the attention of those still-too-numerous individuals who are not reached by the agricultural press and meetings, if they will make frequent and judicious use of the local weekly as a medium for short articles and summaries of current information on the subject These local sheets have a faculty for getting to all corners of the countryside, and are read omnivorously by many farmers who would not believe themselves equal to the perusal of an agriculturai journal

I have said that I believe there is hope that some kind of a solution will be found. There was a time when the Canada thistle was the occasion or much alarm and discouragement. Inder the conditions prevailing, it also was a very real prob lem, but, thanks largely to changed methods of farming, its control has been got well in hand. More stock and less grain farming, which also involves more use of the land for hay and cultivated crops, and more or less regular and short rotation of crops, is the change which has taken place. It has reduced the proportion of the farm which is under those crops which allow the thistle to mature its seed and strengthen its rootstocks, and has increased the area under grops We shall probably alwhich can be cultivated ways have the Canada thistle to content with but, in proportion as we practice thorough and approved methods of farming, we may expect to keep it in check. These same farming methods will help to keep the new foe, the perennial sow thistle, in check, if they are practiced; and it must be comessed that they are still far from be ing as generally practiced as they should be. thistle will require more energetic handling but the methods probably will not be so very different from those recommended for the Canada thistle. At all events, the farmer who keeps stock, grows hav, corn and roots, and cultivates at every opportunity while cropping, and also while the fields are bare, will be the farmer to profit most by any additional suggestions which

For give definiteness to the above remarks, it will not be aims to outline some system of cropping where will give the greatest amount of opportunity to teht the weed while at the same time allowing the use of the land to the best possible reliable to the purposes of a stock farm. We must be in when a crop of bay or grain has been accord. Flow immediately and follow for the rest of the season, cultivating frequently to the veat any growth from appearing above ground, and ridging up the last thing in the fall. Fallow

again the next spring until the middle of June. and then sow pasture rape in drills, at the rate of 11 pounds to the acre, the rape to be kept cultivated until it shades the ground. The cultivation given in the fallow should weaken the plants enough that the smother crop of rape following it will usually be effective in bringing the weed under control. If necessary, the treatment can be continued through another year by using the land for corn or roots, when the weed can be better watched for, than with other croys. This treatment can be applied in part, or with variations to suit the conditions of each case, or a complete summer-fallow may be substituted; but in every case its effectiveness will depend to a great extent on the thoroughness and timeliness of the work It must also be remembered that no amount of thoroughness will prevent the re-introduction of sow thistle, so long as it remains in the waste places and on neighboring farms therefore, the above treatment must be followed up by continual watchfulness, and by the adoption of such a rotation of crops that the land

comes under cultivation frequently While sow thistle can be extremely troublesome on almost any kind or condition of land, it seems to be a fact that it is most difficult to deal with on low or poorly-drained fields. This may be due in part to a preference for moist conditions, but I feel sure that much of the responsibility lies in the less-thrifty and vigorous growth of the crop, which gives the weed an opportunity that it is not slow to take advantage of. Obviously, drainage is the first step where these conditions prevail. Drainage alone will not eradicate sow thistle, but if it will help, it becomes the height of folly to go on indefinitely without it, especially as the profits will be reaped in so many ways besides that of easier weed control

Perennial Sow Thistle (Sonchus arvensis).

(Note:—The flower is yellow, but this color, when reproduced in a half-tone, appears black.)

One other suggestion seems well worthy of consideration, namely, pasturing fields that are badly overrun. Henry Glendinning has found this completely successful in cases which have come under his management, and he recommends it strongly. Sheep, especially, are useful for this purpose, and where, for any reason, it is not possible or desirable to break up a field, no better plan could be found than to keep it closely pastured.

All the foregoing suggestions, it may be argued, have already been tried with more or less thoroughness, and yet only partial success. Is there nothing more which can be done? The successful use of chemical sprays, such as iron sulphate, for the destruction of wild mustard and some other weeds, has raised the hope that it might avail for sow thistle as well, but there seems little likelihood of this being the case. Experiments have not yet demonstrated its usefulness, at any rate

The fact that much of the problem of the sow thistle arises out of the case with which it spreads its seeds on the wind, brings up the question as to how much relief may be expected from weed laws. Our present laws, if properly enforced, would do some good, in so far as they are insufficient or impracticable of enforcement, they ought to be improved. This is another question, however, which cannot be entered into here. We must not make the mistake of expecting too much from legislation; but the existence of a public menace like the perennal sow thistle de

mands that something be done. The individual farmer must do his duty on his own farm, but he has a right to expect that the community will do its duty as well; and whin he has the assurance that it is being done, there will be encouragement for him to do his test. HERBERT GROH. Central Exp. Farm.

Alfalfa in Central Alberta.

Editor "The Farmer's Advocate":

Many of your readers may be interested to know with what success alfalfa has been grown in Central Alberta. In 1907 a block of alfalfa was seeded on the experimental farm at Lacombe. The land on which it was sown had been under grain crops for a number of years, without rest or fertilizers. The season previous it had been under oats, and was fall plowed. It was cultivated in the spring of 1907 with disk and drag harrows until June. By this means, a number of crops of weeds were destroyed before the alfalia seed was sown, and the moisture was conserved, so that there was no lack of moisture to effect prompt germination of alfalfa seed. The seed was sown with the grass-seed attachment commonly available, with the ordinary grain drills, seeding being at the rate of about 15 pounds per acre. The variety used was the common alfalfa. Immediately after sowing, a part of the land was inoculated by means of soil from an alfalfa field where the alfaifa had been established for a considerable period. As growth progressed during the season, the alfalfa was clipped back with a mower, the cutting bar of which was tilted high. It is a fact that, with each clipping of the young plant the crown increases in size; thus, a plant which has been clipped two or three times during the season is in a much better condition to go through the winter successfully than a plant which has not been so clipped.

In 1908 two cuttings were made from both the inoculated and the uninoculated areas of alfalfa, The inoculated area yielded at the rate of 7,200 pounds of cured hay from the two cuttings, while the uninoculated yielded only at the rate of 2,520 pounds per acre. The difference in the alfalfa is not wholly represented by the figures given. The difference in the color of the crop growing on the areas was as marked in shade as was the difference in yield in pounds. The crop growing on the inoculated land was a rich dark color, while that on the other was pale and sickly. themical analyses showed that the hay produced from the inoculated area contained more than 2 per cent, more protein than the hay produced on the uninoculated area. Further, the inoculated alfalfa came through the hard spring of 1909 without great loss, while the uninoculated alfalfa was completely killed out.

In speaking of the hardiness of the different strains of alfalfa, the night frosts and sunny days of the spring of 1909 demonstrated that there is a great difference in the power of different strains of alfalfa to withstand trying conditions. Two areas were sown side by side in the spring of 1908, the common alfalfa being in one block, and the Turkestan strain in another. Both were given similar treatment. The Turkestan came through, while the common alfalfa was entirely killed

It is important, in securing seed of alfalfa, that the hardier varieties be purchased, and that, in sowing it, some method of inoculation be used. The crop is of such importance that we advise every man who is interested in maintaining the fertility of his land, and in growing live stock, to try a small block of alfalfa. By beginning with an acre, and thoroughly inoculating that acre, he can in two years, if successful, from that acre as a beginning, inoculate his entire farm, if

Speaking of the comparative feeding value of Ifalfa, the figures given by Prof. Hart, of Wisconsin, are of interest. He says: "If upland prairie hay has a feeding value of \$3.00 per ton. on the basis of its ability to produce milk or meat, then timothy hay would have a feeding value for the same purpose of \$2.48, while alfalfa hay would be worth \$9.08." He further makes a claim that "Five tons of well-cured alfalfa hay is equal in feeding value to four tons of bran. When we consider the market price of bran, and the fact that we can produce in Central Alberta from three to five tons alfalfa hav per acre, the enormous stock-carrying capacity of one-quarter section of land is brought into strong relief. I and on which alfalfa can be grown successfully is upon the same basis as the corn-producing States. as far as its ability to carry stock is concerned. It is evident, therefore, that if in the central part of our Province alfalfa can be successfully grown, the land is bound to appreciate very rapidly in

A bulletin recently issued by the Department of Agriculture, at Washington, states that wherever alfalfa has been generally introduced into any State within three years the price of the land has doubled. With the rapid rush of settlers, and the annual restriction of the range consequent thereon, it is of across importance that a fodder

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iterested to een grown in alfalfa was icombe. The under grain rest or ferbeen under ultivated in rag harrows r of crops of lin seed was ed, so that fect prompt d was sown monly availseeding beer acre. The Immediateas inoculated ld where the considerable ng the seath a mower, gh.

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Plot of Oats on Experimental Grounds, Morrisburg.

crop be grown. If, therefore, every effort is made now to introduce alfalfa, we will have overcome the obstacles in the way by the time the fodder from this source is most needed.

To experience difficulty in the growing of alfalfa in the beginning is not new, for in many States where alfalfa is now recognized as a safe crop, there were many discouraging years before it became established. Our land is new, and bacteria, if not present, must be introduced. The more our land becomes filled with bacteria, the better will the alfalfa flourish.

G. H. HUTTON, Supt. Lacombe Exp. Farm. Alberta

Extension Work in Dundas, Stormont and Glengarry.

When, three years ago, the Department of Agriculture for Ontario determined to undertake the establishment of district representatives in various parts of the Province, through them to introduce the study of agriculture into the district High Schools, and to vitalize the services of the Department by bringing its agents into actual practical touch with the farming population, the united Counties of Dundas, Stormont and Glengarry were fortunate enough to have given to them one of the six original representatives. The office was opened in Morrisburg in June, 1907, under W. H. Munro, a native of Dundas, a graduate of Guelph, and now superintendent of the Dominion Experimentai Farm at Rosthern, Sask. A. D. Campbell B. S. A., a native of Middlesex County, Ont., took charge of the work in these counties in June, 1909, and is having the satisfaction of having the work progress in a gratifying manner in many direc-

United, these three counties comprise quite an extensive territory. Within their boundaries is much most productive land. In Glengarry, the northern part of Stormont, and the north half of Dundas, is found a heavy, yet mellow, friable, rich clay loam, whereon diversified farming, with a marked bent to dairying, is intensively carried on. what sharper and harder-bottomed, yet excellent apples, especially the McIntosh Red and the Fameuse, do exceedingly well. All together, these counties are a splendid district, in which much has been done, and wherein many finishing touches are still needed.

Mr. Campbell brings to his work here the advantages of normal training, experience in teaching and in assisting as district representative elsewhere, his (). A. C. training, geniality, and six feet two inches without shoes.

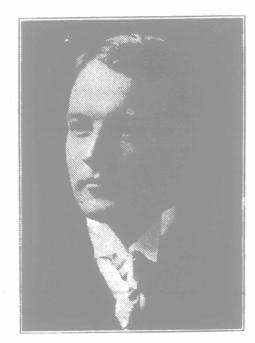
The primary idea of these district offices was to introduce agricultural courses into the High Schools. In few counties has this approximated a success, for which conditions the various representatives need not feel depressed, since the fault lies not with them, but mainly with our educational system, which, from the time the child first toddles away from the home to the district school, shapes the tastes and the processes of mind in directions away from agriculture. Mr. Campbell's experience in Dundas has been no exception. though a course is offered in the Collegiate Institute at Morrisburg, there are very few to take the work. However, interest is being manifested, and there is hope of a growth in this department of Farmers will appreciate this educational opportunity as time progresses

But the other features of the representative's work has grown so that an assistant, in the person of 1 C Nunnick, B. S. A., has had to be added to the working force, devoting his energies to Glinga:

urses, usually of three-days' duration, were this hast winter throughout all the townships ich the attendance mounted up close to five the lead. At these classes the people were is old loves, rallying in greatest numbers + . . . 'ack-judging: but the tremendous im-

portance of selecting, judging and testing their seeds and crops cannot long escape their attention. It is a safe venture that greatest good, at least cost, can be accomplished in the next three years in this territory by the judicious selection of crops and seeds.

The status and prospects of the apple crop in Dundas has led Mr. Campbell to devote thought



A. D. Campbell, B.S.A. District Representative of Agriculture for Dundas, Stormont and Glengarry.

and energy to this much-neglected crop. are many fair-sized, well-grown orchards throughout the district. The McIntosh Red and the Fameuse do wonderfully well when cared for, but the from what they might be. Mr. Campbell has inches. Such is the miracle of the corn.

taken charge of four orchards this season directing the pruning, cultivation and spraying result, a normal crop of clean apples is being produced in an orchard famed as being the worstaffected with blight in the district. So much interest is being developed by this demonstration (which is being done on the places of "good" farmers) that there is every hope of forming a cooperative association for marketing purposes next season.

These counties, in most parts, have much to learn of the value of underdrainage; it is needed, too, before the full benefit of the many ward ditches will be obtained. In the experimental plots on the fair-grounds at Morrisburg, Mr. Campbell placed a complete system of tiles, with the result that, while, in the wet season of 1909, the land was too soft for working on June 1st, it was this year ready for sowing on April 15th; a bog was transformed into first-class land. Many farmers are, consequently, seeking and receiving aid in the planning of their drainage system.

Mustard is too much with these people; sow thistle is prevalent, and ox-eye daisy, quackgrass, brown-eyed Susan, and the whole retinue of weeds, are daily stealing possession of the farms. Campbell is busy preaching short rotations, and it would appear that the people need such sermoniz-If they have one fault more than another, it is that of too long a rotation; land lies too long in hay, then in pasture. He has sprayed fields of mustard with splendid success, again demonstrating a work that has interested his people.

At every district fair in the three counties, save two or three, there will be held stock-judging contests this fall. This is a splendid opportunity for the boys, and will strengthen the work of the leaders.

Experimental plot work is carried on at Morrisburg. Alfalfa, both uninoculated and inoculated, was making a splendid showing. ference in the varieties of corn indicated that farmers must select discriminatively which to plant for silage or for the grain. The irregular stands obtained in mangels and corn showed that seed-testing must be done. Oats were a splendid crop, though varieties differed greatly. An effort, which deserves success, is being made to encourage the improvement of the potato crop.

Farmers' Clubs are not as flourishing as they will yet be. Their function should not be chiefly commercial, at least not in their earlier stages The most crying problems are not those presented by the country merchant, who usually serves the community very reasonably. The Clubs must grow: they must form the threshing floor for the problems of weed eradication, live-stock management, stock improvement, social improvement, and improvement of market facilities.

The farmers are beginning to appreciate and use their representative; they have confidence in him, and are learning that he is there to do his very best for them. His office is as a magnet to them; their problems of drainage, weeds, feeding, insects, soils, live stock, come to his desk for his best judgment. In the fuller use of the district representative lies promise of a new life in rural communities.

Prof. Cyril G. Hopkins declares that on the best-fertilized plots at the experiment station in Urbana, Ill., corn made the prodigious growth of forty-one inches during the first seven days of culture and marketing have received practically no July, measured by the rise from the ground of the attention. As a consequence, the orchards are tip of the leaf, and during three weeks, from June unsightly, the fruit spotted, and the prices far 23rd to July 15th, corn plants grew six feet seven



Ernest Farlinger's Orchard, Morrisburg. Pruned, cultivated and sprayed under the direction of the District Representative.

Soil Moisture and its Uses.

From an address by Prof. A. M. Ten Eyck, Superintendent of the Fort Hays Branch Experiment Station, delivered before the Western Kansas Farmers' Conference, in June, 1910, we extract the following important facts:

USE OF WATER.

In the growth of plants, water is needed in the soil for the following reasons:

1. To dissolve the plant food.

2. To carry the food to the plants and through the plants.

3. It is food in itself to the plants. 4. A certain amount of water in the soil is

necessary to give the proper texture favorable for the growth of the plant roots. 5. Water also acts as a regulator of the temperature of the soil, tending to raise the temperature of cold soil by reason of warm rains, and, by evaporation, to keep down the temperature of the

soil during the hot summer weather. 6. The bacteria in the soil which assist in decay and in chemical changes by which the plant food in the soil is made available to the plant, thrive and multiply in the soil only with a favor-

able condition of soil, moisture, heat and air. AMOUNT OF WATER REQUIRED BY CROPS.

Experiments which have been conducted show that in their growth plants require a large amount of water. Prof. F. H. King, at the Wisconsin Experiment Station, found that cultivated crops withdrew from the soil during their period of growth from 2.4 to 5.1 acre-inches of water, or 300 to 500 tons of water, for every ton of dry matter produced

From his experiments he has determined that one acre-inch of water is required to produce three and one-third bus, of wheat, or that nine acre-inches of water are sufficient to produce a 30-bushel wheat crop, if this water could all be used by the growing wheat. In like manner, one acre-inch of water is equivalent to five bushels of barley, five bushels of oats, or six bushels of corn.

According to his figures, it would require only four and one-half acre-inches of water to produce a ton of clover hay, or a four-ton crop of clover hay could be produced by 18 acre-inches of water. Two acre-inches of water were equivalent to one ton of corn fodder, and a yield of six tons per acre would require only 121 acre-inches of water.

Prcfessor King's experiments were performed out of doors, but the crops were grown in cylinders and were not subject exactly to natural field con-

ditions. In experiments which the writer conducted at the North Dakota Experiment Station, 1898-99, it required, on an average, 15 acre-inches of water to produce a 30-bushel wheat crop, or one acreinch of water was equivalent to two bushels of wheat. These results were secured in the field. The moisture content of the soil to a depth of six feet was determined at sowing time, and again at harvest time. The loss of water from the soil, plus the rainfall during the period of growth, was the amount of water which was charged to the

At the Kansas Experiment Station a series of field experiments of this character have been conducted with different crops during the past three seasons. A summary of the data secured is given in the accompanying table

This was due, in part, to its longer grow-The relatively small amounts of ing period. water required to produce the crops of sorghum and Kaffir corn may be due, in part, to the fact that the crops were planted several weeks later than the corn, and had less rainfall charged to them than was charged to the corn. The fact remains, however, that the amount of dry matter produced was greater with the Kaffir corn and sorghum than with the corn, and that an acre-inch of water produced more pounds of dry Kaffir corn

MOISTURE IN SOIL AFTER CROPPING.

The moisture determination made in the field

after the crops were harvested showed the following results: Comparin . the soil in each plot to a depth of six feet, the Kaffircorn plot contained per cent. less water than the corn plot, while the sorghum plot contained 0.41 per cent. less water than the corn plot. Thus, tht drouth-resistant crops actually left the soil drier in the fall than did the corn.

or sorghum than of corn.

The results of this experiment indicate that the drouth-resistant crops may use large amount of water, and tend to exhaust the supply of moisture stored in the soil to a greater degree than crops which are not classed as drouth-resistant. Dryland farming is therefore as much a question of soil culture

or of conserving the soil moisture as of growing drouth-resistant crops.

The presence of a large amount of humus in the soil increases its moisture capacity and its power to retain water, and is an important requisite to insure against the injurious effects of drouth. It is true of the soil in a large part of the (American) West that it is lacking in humus, and for this reason its water-holding power is not so great as it might be, resulting often in low yields and crop failures in an unfavorable season.

Saving Distance on Hay-fork Haul

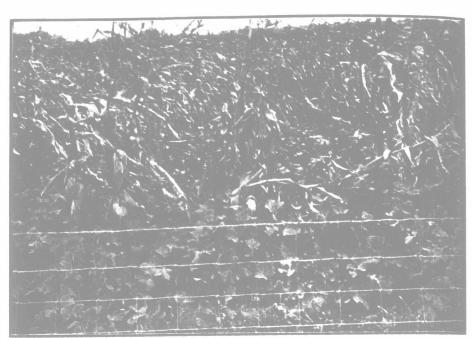
Editor "The Farmer's Advocate"

I am enclosing you herewith plan of a scheme for saving time and labor during the rush of haying and harvest. Some of your readers, no doubt, already practice the following method of shortening the haul for the horse on the hay-fork rope; but, for the benefit of those who do not, I wish to give my plan. Instead of having simply one pulley attached to the side of the barn door, and a straight away pull for the horse the full length

tached from whiffletrees, and comes back of itself when the fork is pulled down. J. E. McINTOSH. Glengarry Co., Ont.

Sowing Rape in the Corn.

Under favorable conditions of weather, rape may profitably be sown in the corn field just before the last cultivation to provide pasture for sheep and lambs in the autumn months. The seed may be sown broadcast from the saddle on a horse's back or by simply walking between the rows with a hand-seeder, sowing at the rate of about four or five pounds to the acre. The last cultivation



Rape in a Minnesota Corn-field. Sown at Last Cultivation of Corn.

should be shallow, to avoid cutting off the fibrous roots of the corn and too deep covering of the rape seed. The sheep will eat the lower leaves of the corn without injuring the ears or stalks. and after the corn is harvested, in an average season of rainfall, the rape will grow rapidly and make fine pasturage for sheep or lambs through the late fall months. It is well to take advantage of weather conditions by sowing and covering the rape seed as soon after a rain as the land is fit for cultivation. There is no pasturage equal to rape for fattening sheep or lambs, and the seed is so cheap that there is very little expense involved in a trial of this suggestion.

The Longevity of Seeds.

In the course of an elaborate article, officially published, on the longevity of seeds, by Dr. Alfied J. Ewart, Government Botanist and Professor of Botany in the University of Melbourne, the stories of mummy wheat and other grains coming to life and productivity are relegated to the region of exploded myths or frauds. The author has made an exhaustive inquiry into existing data on he subject, and by coming into possession of a packet of over 600 different sorts of seeds, dated over 50 years ago, was able to make valuable first-hand research and trial himself. complete records of de Candolle disclosed that out of 368 seeds, kept dry in air for 14 years, only 17 retained a feeble germinative power. querel found that 18 out of 90 leguminous seeds, those of two species of Nelumbium, of one Labiate, and one Malvacea, remained germinable for 25 to The oldest germinable seeds obtained 80 years. by the latter were three species of Leguminosæ 80 years old. The records of seeds supposed to have lain dormant in the soil are regarded as quite worthless, not more than two or three per centbeing confirmed by the two experts quoted and Prof. Ewart himself. The tabulated records given by him go to show that vitality decreases, as a rule, in proportion as age increases, and from 20 to 50 years, or over, the record stands "nil," "nil," In the case of oats ten years old, cases are cited, 93 and 84 per cent. germinating Several cases of mustard (Nigra Koch) are cited, 2 years old, germinating 10 to 80 per cent.; carrots, 12 and 13 years old, nil; sunflowers, 1 year old, 96 and 97 per cent., 15, 50 and 51 years, nil; barley, fresh, 100 per cent.; 2 to 7 years old, 10 to 95 per cent.; 8 to 10 years, 20 per cent.; and others, varying from 6 to 18 years, nil. Linseed, very variable, even with rish Linseed, very variable, even with ish seed the highest record being 98 per cent. lot, 12 years old, germinated 14 per com others of that age and over are record Lucerne (alfalfa) showed very varying results, from nil to 84 per cent, in one case of seed 16 years old Fresh peas varied from 80 per cent. nil, and in one case two-year-old peas germinated 100 per cent; three years old, 88 per cent. Cultivaled sow thistle, 5 years old, germinated 50 per cent. Rye, fresh, 100 per cent, germinated in one case recorded; 2 years old, 87 per cent, but

WATER REQUIRED FOR DIFFERENT CROPS-SOIL-MOISTURE CONDITION AFTER DIFFERENT CROPS-AVERAGE FOR THREE YEARS, 1903-1905.

NAME OF CROP.	Average poriod of growth.	Average water used per day.	Total water used by crop.	Yield per acre.	Grain produced by one acre- inch of water.	Total dry matter produced per acre, including straw or stalks.	Pounds of dry matter produced per acre by one acre-inch of water.	Fall condition, † motsture in first six fort of soil after senson's cropping.	Fall difference in moisture in first six feet of soil com- pared with corn plot.	Spring condition, moisture in first six feet of soil after previous meason's cropping.	Spring difference in moisture in first six feet of soil compared with corn plot.
Wheat (winter). Oats Barley Emmer Flax Millet Sorghum (sowed) Soy beans Kamr corn	137	1nches. 0.131 0.190 0.178 0.187 0.219 0.214 0.166 0.152 0.146 0.194	1nches. 22.22 20.15 18.20 21.69 22.33 16.71 18.21 15.91 16.98 26.64	Bush. 18 32 18 28 8 — 14 50 40	Bush. 0.81 1.58 0.99 1.30 0.36 0.88 2.92 1.50	Lbs. 2,399 3,530 1,918 2,797 1,954 3,338 10,749 1,853 6,811 4,424	1.bs. 108 175 105 129 88 199 509 116 401 163	Per ct. 23,81 23,91 23,79 23,48 23,48 24,22 23,09 24,40 23,03 23,59	Per ct. +0.22 +0.32 +0.20 -0.11 +0.63 -0.50 +0.81 -0.56	Per ct. 24.18 23.97 24.56 24.20 24.36 24.97 24.15 25.13 23.66 24.47	Per ct 0.29 - 0.50 + 0.09 - 0.27 - 0.11 + 0.50 - 0.32 + 0.66 - 0.82 00.0

*Three winter months deducted. †Average for two seasons only, 1904 and 1905.

Excessive rains fell, and a considerable part of the water must have been lost by surface drainage. None of the crops lacked for water. From these results, it would appear that barley and oats require less water than the other grain crops, while emmer, which is classed as a drouth-resistant crop, used more water per acre than any other small-

grain crop, except flax.

The seasons of 1903 and 1904 were very wet. of the rope, the rope, after passing through the pulley at the door, is then run through a pulley attached to the whiftletree, and back to the opposite side of the barn door, where it is fastened by means of a ring or other attachment. In this way the length of the haul is considerably shortened, and the hay elevated to the top of the barn in nearly half of the time taken by the old way. The draft is slightly heavier, but not enough to Corn used more water per acre than any other be at all noticeable. In returning, pulley is deUNDED 1866

Corn.

ther, rape may just before the for sheep and e seed may be a horse's back, rows with a about four or st cultivation

on of Corn.

off the fibrous vering of the e lower leaves ears or stalks. an average sea v rapidly and lambs through take advantage nd covering the the land is fit urage equal to and the seed is xpense involved

Seeds.

rticle, officially ds, by Dr. Alt and Professor Melbourne, the grains coming d to the region ne author has isting data on ossession of a of seeds, dated make valuable The early closed that out 14 years, only Becpower. ruminous seeds, of one Labiate, nable for 25 to seeds obtained Leguminosæ 80 pposed to have rded as quite three per cent. ts quoted and ed records given decreases, as a s, and from 20 stands "nil," s ten years old, t. germinating. loch) are cited, per cent.; carsunflowers, 1 15, 50 and 51

per cent. per cent ng results, from f seed 16 years per cent. neas germinated per cent. Cultiminated 50 per rminated in one per cent., but

cent.; 2 to 7

o 10 years, 20 from 6 to 18

even with frish

cases are also cited of 2-year-old rye and 50-yearold showing nil; nearly all the records over 12 years old show nil. In clovers, the highest recorded is 87 per cent. from fresh seed, 12 years

and over invariably showing nil. It should be stated that different ways of treating these old seeds were tried, such as moistening them with water or acid, putting them in soils, etc The conditions for longevity are partly inherent in the seed itself, and partly due to external conditions. Fairly cool, dry, airy conditions preserve seeds best; while, in the soil, seeds last

longer in the deeper layers than in the surface

Seeds with impermeable coats are also

naturally most likely to last longest in the soil. In case of all ordinary seeds, the drier they are, the longer they are likely to last, and that applies more especially to the starchy seeds. The property of longevity is an hereditary peculiarity inherent in the living protoplasm. The conditions favorable to germination are, of course, water, oxygen, and a certain temperature, the proviso being added that the two former must be able to penetrate the seed in sufficient quantity. appears to be some diversity of view as to the effect or light upon germination, though, in practice, various small seeds must be superficially sown to germinate well, and this is due directly or indirectly to their exposure to the light. In case of grain intended for seed, the general deductions to be drawn from these researches are that it should be thoroughly matured, and so harvested and

THE DAIRY.

moderately-low temperature.

housed that it will be preserved dry, and at a

Dairying in Eastern Ontario.

Not often does one have so favorable an opportunity to see things as was afforded the representative of "The Farmer's Advocate" last week, when he visited the Brockville cheese section. in company with G. G. Publow, Chief Instructor for Eastern Ontario. Mr. Publow has been on the road in the interests of Ontario cheese for 23 years. He knows every factory and it conditions difficulty of cheesemaking in his section, and has solved many of them. Having so intimate a knowledge of the business, his successs among the makers foliows naturally. Accompanying him was the district instructor, A. H. Wilson, of Athens, whose interest in the welfare of the cheesemakers and the milk producers of the district is not surpassed. Completing the party was Senator Dan Derbyshire, born in the district, once its school teacher, later its cheese manufacturer and buyer, then its representative at Ottawa, and now its Senator. He knew every farm, every man, his wife and all the children; and, besides being always entertaining, his intimate knowledge of every factory and its supplies made him a valuable source of information for the party. The Senator construction.

The first part of the current season has proved weather was cool, and grass plentiful, making the supply of milk unusually large, while the natural conditions prevented the development of harmful bacteria. Mr. Publow declared that better cheese never went on the market than in this year, and that it was difficult to find an inferior cheese from Eastern Ontario during May and June. The total quantity of cheese for this year so far is just about up to that of last year. In some sections it is considerably less, due to an export trade. In the Eastern Townships of Quebec, and along the front of Eastern Ontario, there is developing a considerable export trade in cream and casein to the United States. From the Brockville section a refrigerator car is shipped daily, going to Morristown. N. Y. The contract with the consumers varies. One factory, which had just began shipping, is to receive net, nineteen dollars a ton for July and August milk, and twenty dollars a ton for the remainder of the The buyers pay the maker or operator, and all shipping expenses. Producers are paid every week This is somewhat better than present prices for cheese, but may not be later in the autumn.

It is difficult to tell with assurance the degree of wisdom in the development of this trade. structor Publow cannot understand why, if it is a desirable proposition, the American farmers do not supply the necessary milk. It seems a pity to have a factory organization demoralized for a part of a season or more for the very little advantage assearently gained in this new trade, especialis when we have a cheese trade that should never to neglected, that has been the basis of prosperity for much of the country, and that

should be broadened, not curtailed. The manufacture of whey butter is on the in-

were a maker, I would like to make whey butter; if I were a patron. I would not want it made. And the answer tells the whole story. tract between patron and maker usually gives the maker two-thirds of the returns the first year, and a half for succeeding years. One factory of about seventy patrons made about three thousand dollars' worth of such butter in its first year. maker got fifteen hundred dollars; the seventy pa-

crease. "What do you think of this phase of the industry?" Mr. Publow was asked. "If I crease. trons, if each had received an average share, would have had each about twenty-two dollars more for the season, which would have meant about four dollars more on each monthly check, an amount that would scarcely be noticed, while, without doubt. the depreciation in feeding value of the whey was felt, at least, by the pigs. In some factories whey butter has been made for four or five years; some are abandoning it. The product is sold locally or in adjacent towns, and was encountered at almost every table for a week by the writer.



Plowing for Fall Wheat.

While the quality of the cheese during the first from Toronto to Montreal; he has faced every part of the season was excellent, makers have kept the Chief Instructor going almost twenty-four hours of the day of late, on account of the difficalties which have arisen. The hot, dry weather has been favorable for the development of undesirable bacteria-and they have been developing. There has been more trouble this year than for several years past with bitter-yeast ferments; gas has not been giving a great deal of trouble, but, in combating gases, the makers have freely used the acid culture, which is a suitable media for bitter-yeast growth, and, some of their cultures becoming contaminated, they have had troubles enough

The district inspectors are kept busy assisting the makers, and suggesting to the farmers better methods of caring for milk. A. H. Wilson, instructor for the Brockville district, reports a steady improvement in the care of milk. Aeration has been abandoned, and water-cooling is being has always been a great encourager of factory gradually installed. Much still remains to be accomplished, however, in this respect. Ninetyfive per cent. of the farmers in this section have silos, and almost all the best of them are whiteideal for cheesemaking in Eastern Ontario. The washing their tables, and making them as sani-weather was cool and grass plentiful making the tary as possible. To these advancements they must add covered milk-stands, well removed from all sources of odors, and convenient to cold water; fresh, pure water for the cattle, and clean, sterilized utensils.

The Profitable Dairy Cow.

Some valuable hints on the care of the cow before and after calving, and the successful rearing of the calf, are given in a sensible article contributed by F. H. Scribner, a practical dairyman of Wisconsin, and appearing in a recent issue of the Jersey Bulletin, from which the following extracts are quoted

" Never in the history of our country was there so much encouragement from a pecuniary standpoint, to do things right in all lines of farm The high prices of all farm operations as to-day. products is going to have a tendency to bring out the best there is in us, which means more thought, more study, more care, and also unquestionably means in every case increased results. The same rule applies, also, to our live stock, as there never was such a demand for good, well-bred stock as to-day, and, with prices so remunerative that it ought to get our system so inoculated with the bacteria of progress that our thinker would work

quicker, and bring us into line with the progressive, money-making dairymen.

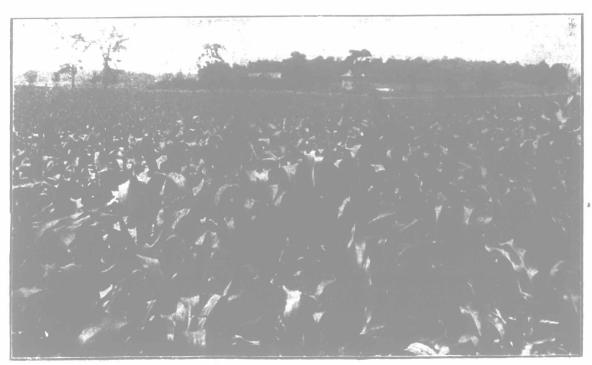
"The old Scotch ge, Trut father, adage, trut mither, or foal can na' amble,' and about the same rule applies to animal as well as human development—hereditary characteristics, strong physical bodies, education, kindness and care, and an opportunity to bring out the best there is in And, in treating us. on this subject, I want to take it up along this line.
"In considering

the topic of a physical body, I should say that a cow should have from six to eight weeks' rest be-

fore freshening time, to permit the recuperation of her body, which necessarily means that when the calf is dropped it will also have When the cow is nicely dried more vitality. off, she should have plenty of succulent, nourishing and easily-digested feeds to keep her in a laxative A box stall should be part of the condition. furniture of every well-regulated cow barn, and should be about the same temperature as the stable, or a little warmer, or it would have a tendency to congestion or a stagnation of the blood, thereby causing disorder of the functions.

The easiest time to kill a weed is just before you can see it, and the easiest time to kill disease When the little fellow arrives, s to prevent it. the first thing to think of is to disinfect the navel cord, to prevent germs of disease entering the system. A good lesson can be learned from some of our best horsemen, who are paying a lot of attention along this line.

Nature has provided something in the first milk that is very essential in getting the calf's digestive machinery started right, and I think the youngster should be permitted to have it. We usually leave the calf with the cow a couple of days, until it is nicely straightened up. The most important time in the li'e of the calf is when we take upon ourselves its feed and care, and here is where we want to exercise a lot of kindness and gentleness, for if you are impatient and rough in your treatment with them, they will distrust you



The Giant Up-springing Corn.

and fear you, and the chances are they never will forget those.

"When teaching the calf to drink, don't push its head into the pail, but wet your fingers in the milk and let it suck, and coax its head into the pail, and usually the second or third time it will drink of its own accord.

"There are three essentials at this time, i. e., the quantity of milk, its temperature and its quality. Calves are injured more by not observing carefully these rules for the first few weeks of their lives, than in any other way. At this age their little stomachs are not strong, and a little care at this time often means the difference between an unprofitable and a profitable animal.

The amount to be fed should not be determined by guesswork, but by actual weighing or measuring, for I find it so easy to overestimate. artificial heating of milk is so good as the natural animal heat, which is about 100 degrees, so try to retain this temperature as nearly as possible. The mother also furnished the milk in a sanitary condition, and we should try to follow her example in this respect, and see that the pails are kept in a cleanly condition.

The care of the pen makes quite a difference about keeping their digestion right. The calves at our place require more and take more bedding than all the rest of the stock put together. If they are permitted to lie on a cold, damp bed, they take cold, and that they are out of condition is shown by their rough, staring coat, running nose and general unhealthy appearance.

DON'T FORGET THE EXERCISE.

" I visit so many barns where calves are kept in a little 4 x 6 pen, with conditions just the reverse of what they should be-dark, gloomy damp, ammonia-filled air to breathe; no chance for exercise. Is it any wonder that the average production is so low when they have been brought up under these conditions?

"The fall calf usually makes the best growth. Possibly one reason is because we are around the barn more, and notice their conditions, and can give them proper attention at the right time while, in the summer, our work calls us more to the field, and the stock is apt to get neglected. One quite common trouble with the spring calf is that we want to get it out on pasture altogether too soon, and skim milk, grass, flies and hot weather make a mighty poor combination. my part, I would rather keep them up through the summer, feeding them on good oats and clover and milk. By paving attention to the stable conditions and exercise, the calves will make a better growth than if turned out.

Cool-curing at the Quinte Cheese Factory.

An ideal site for a cheese factory is occupied by the plant of the Quinte Cheese and Butter Company, Ameliasburg, Prince Edward Co., Ont This is a four-vat factory, about 30 x 70 feet in size, built of solid cement, with a twelve-inch wall. 13 feet high, a cement floor and 8-inch partition walls, and was first completed in 1905, at a cost of \$1,400. It stands on the south shore of the beautiful, clongated sheet of water known as the Bay of Quinte, which divides the peninsula of Prince Edward Co. from Hastings Co. on the mainland. A every good curing-room was provided, but being set down into the ground, it was found to be damp, causing some considerable trouble with mold. Four years ago the curingroom was lined up, according to Government specifications, at a cost of \$200, and an insulated ice-chamber, $20 \times 20 \times 13$ feet, cost another \$400.

The curing-room which is about 30 x 20 or 21 feet wide inside, with a ceiling somewhere about 13 feet high, gives a large cubic content of air The walls and framework are painted, and the ceiling oiled, presenting a very pleasing appear About 25 cords of ice are required to fill ance.

the ice-chamber, and are put in at a cost of \$15. A year ago, one of the editors of "The Farmer's Advocate" was privileged to visit this fac tory, and the particulars then gleaned will still be of service in keeping the advantage of cool cur ing before the public. Since the provision for cool-curing, the mold trouble had been practically overcome. The cheese bored particularly well showing a very close body, fine texture, and very clean flavor. One of the July cheese on the shelves was at the time pronounced by Mr. Publow as probably equal to anything that would be seen at Toronto Exhibition.

A feature worth remarking is a small ice box built into the partition between the curing room and ice room, to hold victuals and anything that it may be wished to keep cool. In a number of factories, eithers of milk and other articles of food are often seen standing in the flues. This

rold gir, and in ice hox for the nurnose is not and an another, and in ice hox for the nurnose is not and an another translate, but very convenient.

1 by a minute of cool or not the maker.

2 Ver luson is read that apart from the saving throughout the samon so that the cheese might be made the same right through, was such that he

Men Who Know.

" I find the keeping of individual cow records very useful indeed, and would not go back again to the guessing method," writes a farmer who has tried both ways.

The men who just guess, and who do not know what each cow in the herd gives during the year, often guess too much on the weight of milk and fat, and too little on the cost of feed. They guess that "Polly" is the best cow in the herd, but they do not know, because they have not weighed or tested the milk on any system. Probably "Buttercup" is far ahead of "Polly" as a pro-

The Dairy Division, Ottawa, supplies record forms for milk and feed, so that men can soon know what profit each cow pays. The question is not "What does the herd average this month or next?" but "What does each cow give during the year?" Each cow should be a "long-distance " milker.

feed the hens." They feed their chickens on garbage, on the scratchings from the manure heap, and on what light stuff blows out of the tail-end of the fanning mill, and then expect the hens to produce eggs.

As nearly as I can find out, it takes between three and four pounds of grain to produce a pound of live pig. We can produce a pound of chicken for that amount of grain, and we can sell our chickens for 20c. to 25c. per pound, and our old hens for 14 cents.

It used to be thought that chickens needed a grass run. We have found that they grow as well or better on cultivated land, so now we hitch a horse to our colony houses, and draw them out into the lane along the corn field. They won't bother the corn, but they will follow the cultivator, and every time it stirs up the soil they'll pick up a fresh crop of insects which make ideal meat food. Then, the cultivation germinates a great many weed seeds, and these seedlings

make ideal green food, so the chickens grow li¹e weeds. We can grow in eight weeks out there a chicken that would take 12 weeks to attain the same weight inside. We also have colony houses scattered around the orchard.

Will chickens eat tomatees? I guess most people will say 'yes." But they won't eat tomatoes if you feed them well. At least, in these orchards where we have our colony houses there have been experimental patches of tomatoes, and I don't believe there have been two tomatoes picked by the chickens in four years. We hop-

per-feed those chickens, giving them all the grain they want. I admit we have fed sparrows as well as our neighbor's guinea fowl and turkeys, but withal, it has not in any year taken more than four pounds of grain to produce a pound of chicken.

If you want to make a chicken fat, feed him just a little less than he wants to eat—enough less to keep an edge on his appetite. It is like feeding a boy on pie. You can't sicken him of it as long as you are giving him less than he wants. Overfeed chickens, keeping them close to the feed, and they will likely die. Overfeed and give them a range, and they won't take more grain than is good for them. The more you study hens, the more you think about yourself.

If you use the ordinary stationary henhouses, I have been in henplease clean them annually. houses 18 inches deep with manure, and all alive. I have come to the conclusion that the only reason some farmers clean their cow stables is the fear that otherwise they would themselves get

If you won't clean your henhouses, get the poultry on grasshoppers, grass and water.

May be ple thin's poultry are destructive. They say to like it is a fact that there is more say to like it is a fact that there is more tuberculosis among chickens on the farms of this born says a long to the fields where it country than among those confined in the houses



Harvest-field Refreshments.

POULTRY.

Economical Production of Eggs.

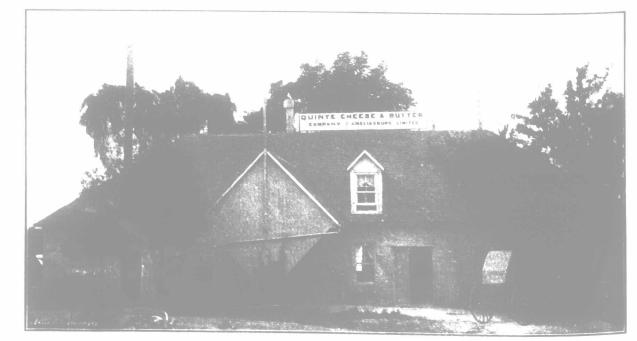
(From an address delivered by Prof. W. R. Graham, at Chatham, Ont., on July 16th, 1910. Reported for "The Farmer's Advocate.")

The money in poultry depends upon two things cost of production and selling price. As I see it, the life and death of the poultry industry in Canada depends to a considerable extent upon co-operation.

There are great quantities of eggs going into cold storage to make cales, and some of them I don't want in any shape or form. They aren't exactly rotten, but some of them are "pretty

One thing I would say if you go into this cooperative scheme, and that is, feed your hens. You mired. cannot produce the requisite quality of eggs or

has been sown don't touch the shocked grain in of fanciers, the field." Ved to their wives and children they we trap nest our hens, and any that doesn't say, "Don't take anything out of the granary to lay loses her head



Quinte Cheese and Butter Company's Former Februard Co., Ont. Ideally sit and on south show of the Bay of Quinte mly on to the heats. Has

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If you want to kill some hens, and don't know which to take, pick the ones that go to roost first, and are out last in the morning. A good hen goes to bed late and gets up early.

Now, as to the cost of producing eggs: We can't get a hen to eat much more than 70 pounds of grain per year. Valuing grain at \$1.60 per cwt., and buttermilk at 20 cents, and throwing in the considerable quantity of clover they cat, we have found that it cost 83 cents a dozen to produce eggs up to the 1st of July. This was with a flock of 84 White Leghorns in an eight-months' test. The average egg-yield per bird was 101

In a nine-months' egg-laying experiment, from October 1st to July 1st, 1910, a flock of Barred Rock pullets, hatched in April, consumed 1,411 pounds of grain and 1,651 pounds milk, and produced eggs for an average cost of 8.9 cents a dozen, the profit per bird being \$1.67.

I also took a flock of 50 May-hatched pullets, and divided them into two lots of 25 each, putting what I considered the stronger birds on one side of the house, and the rest on the other side. The stronger ones produced eggs at a cost of 14.1 cents a dozen, the latter at a cost of 17.2 The vitality was also much stronger from the former lot, as we hatched 75 chicks out of 109 eggs, while the others hatched only 25 out of 100. Moreover, out of these we lost three times as many chicks as from those hatched from eggs laid by the more vigorous flock.

Chicken Lice and Mites.

Editor "The Farmer's Advocate"

This is the season of the year when the poultrykeeper must be on the alert to detect the presence of lice on his fowls, or in the houses. Lice are of two kinds: the large body lice that stay on the fowls, and the mites that infest the perches and feed on the hens during the night. Both will work destruction to the flock if not checked, not only loss of eggs being the result, but often lice are the cause of death. Some cases of disease in flocks that came under my direct notice were plainly attributable to the presence of lice. Examine the fowls for body-lice. Under the wings and around the vent are favorite haunts of the large body lice, and they can plainly be seen running for cover when the feathers are opened. the hens are laying, some good insect powder dusted in the nests will prove effective. treme cases, when the weather is warm, I have dipped the hens Lodily in a solution of creolin This is very effective, but is hard on the hens, and will shut off all egg production for several The weather must be warm, or the hens will die from the cold, as the creolin solution dries off very slowly. This measure should only be resorted to in cases where the flock has become badly infested. But it does the work, and does it thoroughly. This spring, my flock of Leg-But it does the work, and horns became infested, and I dipped them in the creolin solution. The weather turned cold, and I was forced to carry the hens down to the furnace room to dry. But they have not been troubled with lice since.

For the mites in the house, nothing is equal to thorough fumigation with sulphur. Do not spare the sulphur; use about 12 pounds to a house 15 x 20. Close all cracks and openings. vessels that are enough to hold water will do. Vessels with holes would be dangerous, as the burning sulphur liquefies, and might run out and set fire to the house. Place the pot or pail containing the sulphur in a vessel holding ashes, earth or sand, and there is no danger from fire. Light the sulphur with a match or with living coals, but do not throw sulphur on live coals, as the flames leap up in a dangerous manner. Close all doors and windows tightly, and leave them closed for eight or ten By that time the mites will be dead. Repeat the fumigation in ten days, and you will positively be rid of all mites. I have been using this remedy, and find it very effective. The sulphur iumes are also a splendid disinfectant, and kill the germs, as well as the mites. Sulphur may be purchased in 100-pound sacks for 2 cents Fer pound

A coat of whitewash, applied with a spray pump, improves the looks of a henhouse, fills the cracks where the mites harbor, and makes the dark corners light and presentable.

From a flock of 150 hens, we have already sold, since January, 1910, \$135 worth of eggs. Ordinary market prices were obtained, the highest being 30 cents, and the lowest 17. A large number of eggs were used for setting, and a still larger number were retained for domestic use. I have two flocks of hens, one of Buff Orpingtons, and one of W. de Leghorns. I find the Orpingtons the most satisactory, as they are winter layers, and the chi as are hardy and easily raised. Have used the hen up to the present for hatching, and have had sair success. Have a "hatchery" 15 feet long, I feet from front to back, and 2 feet deep. I sis divided into ten cells by partitions. There oor in the top at the back of each access to the nest, which is situated beneath. The rest of the cell is occupied. id water and gravel. When a hen ry, she is removed to a nest in one

of the cells of the hatchery, and given two or three eggs. If she sits quietly, she is given a clutch in two or three days. Very little attention is now necessary, except to furnish clean water and grain. The eggs are examined every few days, and if fouled or daubed by a broken egg, they are washed. The hatchery is covered with wire net, the partitions are of rough lumber, as this is necessary to prevent family quarrels among the hens. A little insect powder dusted in the nest when the clutch is given helps to keep the hens tree from lice. W. E. WILLIAMS.

Middlesex Co., Ont.

Success with Turkeys.

Editor "The Farmer's Advocate"

How many a time have I thought that I would write to "The Farmer's Advocate" to let the readers know how I manage to raise turkeys, ducks and chickens quite easily, hoping that by my experience others may profit. To begin with I had two turkeys this spring; they both laid 33 eggs, when one turkey went to hatch. I put 18 eggs under her. They laid and hatched in the barn. I say this because many people's turkeys wander over the fields and bush to find places to lay. The other turkey I "broke up," and in a week's time she was laying again, and laid 17 more eggs. The rest of the eggs I put under hens. Out of 33 eggs 1 had 29 little turks, and I put them all with the old turkey. They arrived the 15th of May-rather early for such a cold, miserable spring -but I had a large box placed in the kitchen, near the stove, and here is where I kept my turkeys night and day. Only on sunny days (and they were scarce) I let them out in the yard to pick gravel. I fed them nothing until they were 48 hours old; then they knew enough to eat, for they were hungry

And what did I feed them on? you will ask. Just hard-boiled eggs and onion-tops cut up fine. Fed as often as they were hungry, for two weeks, and, my! how they grew, and so strong-no sickly or mopy ones at all. For the lice, I put Zenoieum powder on all of them when they were a week old, and had no trouble since. I cleaned their box out every day; it was quite a lot of trouble, but you certainly have got to work if you wish to accomplish anything in the line of The other turkey hatched 14 from 17 eggs, and they did fine, also. I have certainly a beautiful flock of turkeys.

Do the readers know that a little open bell, tied on the old turkey's neck, will keep away foxes, on account of its continual ringing. turkeys go away in the morning after I feed them, and I ne er see them again till evening, when teed them again-corn meal and wheat mouille,

Now, about the ducks: I have 51 little ducks, but have poor luck with these, as some of them took sore legs and died; some more had a stiffness of the body, some of which got better. feed them corn meal and bread.

About the chickens: I have no bother at all. I have 94 chickens, all hatched by old hens. One time this spring I had 25 hens hatching at once, but five of them died on the nest; I never could find out the reason they died; they generally moped, when taken off the nest would not eat, and their heads would turn black, and finally they would die. Now, I do wish some of the readers would give their experience, especially in turkey raising, for I know that every person who had poor luck would try again on somebody else's plan. Wishing "The Farmer's Advecate" every A FARMER'S DAUGHTER.

Leeds Co., Ont.

GARDEN & ORCHARD.

A Bumper Crop of Strawberries.

Editor "The Farmer's Advocate"

I have grown strawberries for the last twentyfive years. During this time I have tried many different varietics, viz., Wilson, Clyde, Bubach, Warfield, Nich Omer, Wolverton, William Belt. Splendid, Glengarry, Fountain, Parson's Beauty. Ruby, and many others, but for the last ten years I have depended chiefly upon the Williams' Improved for my crop. This variety, with me, will far outyield any other, and, besides, it is a good shipper. When I began growing Williams, I marked the plants that gave the best results. I kept doing this year after year, always selecting the plants I set out in a new patch from the best. In this way I have greatly increased the yield. Last year I set out one and one-fifth acres with Williams' Improved on land that had the previous year a good crop of corn. I plowed under fifteen loads of manure to the acre, and worked in on top about 40 bushels of wood ashes. About May 20th I selected strong plants, and set them in rows four feet apart, and three feet apart in the row. I cultivated and hoed these as often as necessary until September 1st. In July, when each plant had six or eight runners. I distributed them about the original plant, soting in carefully any young plant that had roots formed, and fastening runners down with earth. By the end of that apples will be worth som thing this fall.

August I had a matted row two feet wide. think it very important to treat runners in this way. Some growers crowd the runners closely in the centre of the row to avoid extra hoeing. This method gives small plants in center of row, and small berries.

I use a twelve-tooth strawberry cultivator. take out the two hind teeth and attach two disks which rotate and cut off runners given off late in the season. This prevents the bunching of small plants along the sides of the rows.

I covered the patch with straw in December. This mulch I raked into the paths and added

more, in order to hold moisture, This patch yielded 16,770 boxes berries. The heaviest picking we had gave 5,760 boxes. On July 4th Mrs. Geo. Hoshal picked 300 boxes in seven hours, and during the season she picked 1,600 boxes. The average price received was 6 cents a box; cost of picking, boxes and crates, 2 cents. This leaves 4 cents a box for labor.

Elgin Co., Ont.

Poor Fruit Crop in Nova Scotia.

We have had a peculiar season so far, for fruit. at least. Frost, and cold east winds and rain at blossoming time combined to prevent good fertilization. As a result, we will probably have the lightest crop of apples, comparatively speaking, in the history of orcharding in Nova Scotia. By this I mean we will have an average of fewer barrels per acre than in any other year since we really began to raise apples for export. Up to the present (July 20th) we have had an abundance of rain, and some very hot, close weather, and, as a result, most orchardists are looking for spotted fruit of poor quality, as well as few in numbers. In thinning some varieties this week, the writer found that Baldwins were not spotting much, though the Gravensteins and Greenings had some spot developing. Some of our orchardists have humorously expressed the opinion that the few old barrels left from last year will contain their crop this year.

One orchard in the writer's knowledge, which produced almost 500 barrels in 1909, will not put up a barrel of any one variety.

A meeting of representative orchardists from Annapolis and King's Counties, on July 4th, placed the crop below 25 per cent., taking Nova Scotia as a whole.

The only move made on the recently-purchased Fruit Experiment Station, at Kentville, was the sale of the grass on the farm to local parties. The local Government was to puchase the site for this Station, and the Dominion Government was to run it, but they have taken no action yet.

The policy of the Government since the last elections is supposed to be one of retrenchment and lessened expenditure. This policy is working well, as far as agriculture is concerned. Graft. pet salarics, and overpaid figureheads, are still flourishing. We have not had a fruit conference at Ottawa for some four years, though we were promised it every two years. We are very glad to report the spirit of co-operative packing and marketing on the increase.

A meeting of the fruit companies of the Valley was held at Berwick on July 4th, for the formation of a central association. Ten of these cooperative companies were represented, and there is hat farmers will, in the near future do their own business, and stop fattening the middlemen. Verily, there is no class of men in the world so easy to "do" as the ordinary farmer, and there is no calling under the sun so imposed upon, or so much at the mercy of the unscrupulous money-grabbers and politicians as that agriculture. R. J. MESSENGER.

Annapolis Co., N. S.

American Apple Crop Uneven.

Judging by latest reports to hand, the Pacific Coast is the only extensive region in America that will have a good crop of apples this year. The New England States also seem likely to produce a fair, though not a bumper crop. Elsewhere, conditions are uneven, some varieties being promising in one locality, but scarce in others, and vice versa. For instance, the five big counties in New York State, running from Buffalo, throughout the territory of Rochester, are reported to have a good crop of Baldwins, while Greenings and all fall fruit but Kings are said to be light. the Hudson River district the crop of both Baldwins and Greenings is light, with all the winter varieties in that district promising an average of not over fifteen to twenty-five per cent, of last year. Michigan is uneven, with probability of about half last year's yield. In Canada, a light crop is expected in Nova Scotia. In Eastern Ontario, prospects were fair at receipt of latest ad-In South-western Ontario the winter apples are extremely poor, summer and fall varieties making the only show worth mentioning, though in a few localities we hear that this condition is reversed, the winter trees having a fair load, with nothing to speak of on the early sorts. British Columbia has been counting on a large output. All things considered, while a good deal depends upon the European crop, there is r ason to expect

The Horticultural Experiment Station at Jordan Harbor, Ontario, is situated on the shore of Lake Ontario, and in one of the finest peach-growing localities of the renowned Niagara Fruit Belt.

The farm comprises some 97 acres, only a small portion of which consists of the deep, sandy loam so highly prized for peach-growing, the greater portion being of a heavy clay.

A large portion of the farm is planted with orchards of a few acres each of apple, pear, peach, plum and cherry trees, plots of currants, raspherries and gooseberries, and a further portion is devoted to the testing of varieties of vegetables.

In 1907-08 the whole farm was thoroughly underdrained, under the supervision of Prof. W. H. Day, of Guelph, and the beneficial results derived from such a system are now fully apparent.

An important line of work recently started at the Experiment Station is that of plant-breeding. The object of the plant-breeder is to originate new varieties which will combine to a greater degree than the varieties now grown the qualities most sought by the grower, the shipper and the consum-Let us take, for an example, the Elberta peach, grown more extensively than any other variety, yet by no means an ideal peach. Elberta tree crops heavily with large fruit of excellent shipping quality, but it is surpassed by some varieties in flavor, such as St. John and Mountain Rose; by others in immunity from disease and in time of ripening. It ripens in the middle of the peach season, when a glut is most It seems, probable, and prices are generally low. therefore, that a seedling of Elberta, which would ripen earlier, a fruit equally firm, but of better quality than the parent, would be a most profitable fruit for both grower, shipper and consumer.

On the Experiment Station there are at present some six thousand seedling strawberries, several thousand seedling tomatoes, seedling peaches, pears and apples; at the close of the present season these will be considerably added to.

The seedlings that have fruited or are fruiting this season are being carefully noted and compared with the parent plants from which they were originated.

Not only is it the work of the plant-breeder to improve the size, quality or appearance of the fruit, the vigor or size of the tree, but also to creased interest taken in the short rotation of keep a watchful eye that the selected progeny show less susceptibility to the many insect and fungus attacks that destroy such numbers of our fruit trees and bushes to-day

ARTHUR J. LOGSDAIL. Expert in Plant-breeding Lincoln Co., Ont.

Milking the Aphides.

Man is not the only being that utilizes inferior animals for his profit. A curious analogy, familiar to all entomologists, is furnished by the ant, which is very fond of the "honey dew" secreted by plant lice which suck the juices from plant tissue, and where these swarm, ants are liable to abound. The intelligent insect, whose industry and thrift are proverbial, has discovered that, by touching the lice upon the two little knobs that grow outward and upward from the body, the aphids or plant lice can be induced to give up some of their honey dew. Some kinds of ants heir ant Lurrows, where they suck the juices from tree rootlets. Prof. S. A. Forbes, of Illinois, who has made an exhaustive study of the corn-root aphis, declares that certain species of ants collect the eggs of the corn-root aphis in the fall in their underground nests, and in the spring they place the young hatching from these eggs on the roots of suitable food plants. As these grow and multiply, the ants transfer them from one plant to another, as necessity may arise. During nearly the whole season the ants are dependent on their helpless charges for food, which they find in the abundant fluids given off by the plant lice as they suck the sap from the growing plant. Thus, by harboring these aphides, the ants work an indirect injury to the corn crop.

Plant lice are, therefore, the ants' domesticated cows, which they know how to milk as effectively in their way as man milks the bovine.

Peaches for Great Britain.

From time to time reports come to Canada en couraging the expansion of our fruit shipments to There seems to be an the Old Country market. especially good market for the more perishable varieties of orchard produce, the only difficulty of our reaping handsome profits from such a trade being the danger of loss due to the length of time in transit. Since peach production is so steadily increasing in Ontario, the Department of Agriculture at Ottawa is this year going to make trial shipments of this fruit to Britain. Single layer cases will be used entirely in these experimental shipments, three being strapped together for con-There will be, in all, about 1,000 cases shipped going from the vicinity of St. Catharines. The fruit will be pre-cooled, packed in refrigerator car, and shipped in cold storage. The Department is very hopeful of success by careful handling of this shipment. Fruit-growers generally will watch eagerly for the results.

Plant-breeding at Jordan Harbor. THE FARM BULLETIN.

South Ontario Notes.

Editor "The Farmer's Advocate":

Haying is finished, with the exception of the stragglers, and grain harvest is once more in full swing. The hay was about an average crop.

A larger acreage than usual was sown to winter wheat last fall, and is now looking splendid. Barley is scarcely an average, as it ripened too quickly, but oats, on the whole, look well. Alsike is now being threshed, some high yields being spoken of, as well as fancy prices obtained, but we have nothing reliable enough at hand to state what prices are being paid.

Corn is growing nicely. A great deal had to be resown on account of poor germinating of seed, also because of a cold wet spell that came shortly after much of the corn was sown, and on low, undrained land suffered severely. More care is being taken in the selection of seed corn than formerly, many buying on the cob; in this way one may see the sort of corn one is getting.

Mangels are looking fairly well, but turnips will probably fall away below the average. Much of the Swedes did not grow, and the flies played havoc with some. The potato Leetle is giving much trouble; it seems able to stand good doses of Paris green. One of our progressive farmers sent some of his hard-earned cash to the States to find out a sure way of killing the potato bug. Take the The reply came, and was simple: bug, lay him on a flat stone, and hit a sharp crack with another stone." When will the people cease to be fooled?

Apples, on the whole, will scarcely reach an average yield, but what lacks in yield may be made up in quality. More spraying was done last spring than formerly. The prepared limesulphur was mostly used, with arsenate of lead mixed for second spraying. Spraying is so much less trouble this way than when the mixing and boiling was done at home we may look for more in future.

A nigher standard of farming may be observed on all sides; this is quite noticeable in the incrops, alfalfa, draining, ensiling corn, standing field-crop competition, etc. The true farmer of to-day must be an agriculturist—one who studies from books and agricultural papers, and finds out what he must do for the well-being of his farm.

The perennial sow thistle is scarcely so conspicuous as it has been the last few years. The season, we believe, has not been so favorable for

There are few apiarists in this district, but, from reports, the quality and quantity was quite satisfactory, with a keen market for all that could be produced. A great many colonies die annually, mostly through ignorance or neglect.

Ontario Co., Ont.

The Cost of Living. The Massachusetts Commission on the advance in the price of foodstuffs reports that the tariff actually colonize plant lice, harboring them in has been one active element favoring the upward trend, and suggests at the next revision con sideration should be given the expediency of removing duties on all food products. It is claimed that the tariff was never seriously intended to apply to the foods of the people, save for the development of such industries as fruit in Florida, as sugar beets in the West .- (Why there alone is not explained.) The design is simply to create and preserve manufacturing industries. This hald statement of the situation rules out completely any pretence of making the farmer a beneficiary of the protective tariff system, which will hardly commend itself to a large Contrasting element in the United States. points, like Windsor and Detroit, Montreal and Poston, St. John, N.B., and Bangor, Me., it is reported that groceries are higher in Canada meats, provisions, including dairy products, less Some half dozen sorts of common vegetables were 17 per cent, dearer in Windsor than in Detroit. It is pointed out that a tariff on foods prevents each country from witigating the damage of a short crop when the other is plentifully supplied. Also, it prevents getting the full benefit of seasonal advantages. Green vegetables and small fruits mature later in Canada, of course. The tariff prevents Canada from profiting by our early crops, and prevents us from profiting by Canada's late crops. The Commission found that men's clothing could be bought cheaper in Canada than in the States, the material in the former being better, but the workmanship not so good or fancy. This was reported to be true of many lines of manufacture. The report as sumes that extension of reciprocity in manufac tures will not now be acceptable to Canada, but urges that amicable relations be maintained, so that mutual concessions may from time to time be made. The retailer is charged with being responsible for much of the discrepancy between wholesale prices and those paid by the consumer. give but a short life to the protective system.

The Canadian Department of Labor, Ottawa has also issued in report form the results of an exhaustive enquiry on the same subject in Canada. From 1890 to 1897 prices in Canada followed a downward trend. This was succeeded during the ensuing decade by a more rapid upward movement, which culminated in 1907. Prices in the last-mentioned year were by a considerable margin the highest in the twentyyear period. Prices fell in 1908, but were upward again last year and this year.

Comparing the high year 1907 with the low year 1897, the advance amounted to approximately 37 per cent. Comparing the year 1909 with the low year 1897, the increase shown is approximately 31½ per cent. The advance in products, such as grains, fodder, meat-producing animals, milk, eggs, wool, fruits, vegetables, are reported to have increased in price only 37 per cent., while meats, bran, flour, hides, leather. etc., increased by over 34 per cent., comparing the 1909 decade with that of 1899. Fish products did not advance quite as high as those of the farm. Lumber advanced about 50 per cent., but manufactures generally showed only about 10 per cent. advance.

Poultrymen See Minister of Agriculture.

A representative delegation of poultrymen of the Dominion on Wednesday, July 27th, interviewed the Hon. Sidney Fisher, Minister of Agriculture. The delegation presented five important recommendations to the Minister for his earnest consideration. These recommendations, placed in the form of requests, were, tersely stated, as follows: We ask (1) that a Poultry Commission be appointed to study the question of poultry products from a national standpoint; (2) that in the Department of Agriculture and under the direction of the Poultry Commissioner there be established a department of scientific research along lines of poultry diseases, etc. (3) Since the standardization of poultry products has already been introduced, that the Department of Agriculture assume the expense of this work. (4) Since the present poultry plant at the Experimental Farm, Ottawa, is inadequate and out of date, that the interests of the poultry industry would best be served by its discontinuance as a local station, and the equipment be given to the use of the Poultry Commissioner. (5) That in consideration of the noble work done by Prof. A. G. Gilbert during the past twenty-five years, he be relieved of the personal supervision and management of the poultry plant at the Central Experiment Farm, and his services retained, by appointing him Chief Lecturer in Poultry for the Dominion.

To all of these requests of the poultrymen the Minister showed consideration, and to some at least a favorable disposition, expressing a willingness to do whatever is needed for the best interests of the industry. That the poultry industry eeds constructive management and the services of an efficient poultry commissioner, and that the industry is of such magnitude as to warrant considerable expenditure, ought to be patent to every reading man. Poultry producers throughout the entire land will do well to put forth their best efforts in support of their delegation in the attainment of their requests.

Renewing Alfalfa and Pasture.

In semi-arid sections old alfalfa fields which have begun to yield poorly are frequently reju-This harrow, besides pulvenated by disking. verizing the land surface and improving moisture conditions, cuts the crown of the alfalfa plant and many of the roots near the surface. It is found that the parts of the injured crown each become as productive as the old whole crown, giving a much thicker stand. This practice has been followed quite largely in the alfalfa-growing sections of America. This same method has been tried very satisfactorily by a good many men in renewing pasture lands that are old yet cannot be conveniently broken up. The harrow requires to be set so as to do most cutting and well loaded. It appears to be doing much damage, but in reality does much good, allowing for aeration and improving moisture conditions.

Enquiries frequently come to us bearing the signature "Old Subscriber," or similar appellation We do not publish the name of an inquirer at any time; neither can we give any attention to queries or correspondence unless the writer signs his or her name. Subscribers will please conform to this rule.

There is on foot a plan to form an organization of three nillion members in the United States to protect the public and political interests of farrests. If it be intelligently directed it will NDED 1866

iltrymen of

asture.

A Canadian Embargo.

The reported outbreak of foot-and-mouth dis ease in Yorkshire, England, having been corroborated by the British Board of Agriculture, the Dominion Department of Agriculture has, on July 23rd, suspended permits for the importation into Canada of cattle, sheep and swine from the Old Country. The suspension will affect only those who have already made their purchases, but have not yet shipped. It was, of course, impossible to impose the restriction upon animals already on the water, so arrangements are being made for the veterinary inspection of these in mid stream. As far as reports have been received there have been no further outbreaks of the disease, and all the infected animals, totalling 124 in number, have been slaughtered. There is good hope that the British Department has the outbreak so well in hand that in a very short time it will be entirely stamped out.

A similar embargo has been enforced by the United States upon the cattle trade with Britain, and will be rigidly enforced, until the extent of

the infection is made clear. Foot-and-mouth disease is, like the more deadly rinderpest, of Asiatic origin, and Europe will ever be safe against infection until better methods of sanitation became known and practiced in the localities where it is constantly lurking. It is a germ disease, but its pathogenic organism has never been isolated. In the course of its progress it produces eruptions, and thus provides the means by which it may easily be conveyed from one animal to another. It consequently spreads rapidly whenever it obtains a foothold, and the resulting mortality is always considerable and often serious. Human beings may become infected by the use of the milk of diseased animals, or of the butter or cheese made from such milk.

It is a curious irony on Great Britain that Canadian live cattle are not allowed to be imported except for slaughter within a few days at the place of landing, while the importation of British cattle from this infected district into Canada must absolutely be prohibited. The disease supposed to endanger British herds by the free importation of Canadian cattle is pleuro-pneumonia, from which Canadian herds are free. This is what leads to the suspicion that the embargo on the importation of Canadian cattle is a pickwickian outcome of economic protectionism.

Highland and Agricultural Society Show.

This show, one of the best ever held under the auspices of the H. & A. S., opened Tuesday, July 19th, and was held at Dumfries. There was a grand show of female Galloways, a highly uniform show of Shorthorns, an unusually large show of Ayrshires, a very creditable show of Highland cattle and ponies, a splendid show of Blackface sheep, an exceptionally strong show of Border Leicesters, and an exceptionally good show of Clydesdales. The arrangements were excellent, and everything moved off satisfactorily.

CATTLE.

Shorthorns.—In the aged bull class, six animals were forward. First prize went to the well-known Almwick Favorite, now rising five years, the property of J. Deane Willis. He is heavily and deeply fleshed, yet keeps his shape perfectly. Mintmaster, by Royal Violet, out of a Bapton Diamond cow, the property of George Harrison, Darlington, stood second. He is a strong, level animal, showing quality in all points. Third went to F. Miller, Clifton Road, Birkenhead, on Good Friday. There were four two-year-old bulls, of average stamp, in that class, George Harrison winning first on Prince Olaf II., second going to Viscount Tredegar, on Pretender. The yearling bulls were a quality class. First and second were bred at Collynie, the former being Collynie Cruickshank, a roan; the latter, Primrose Star, a white, both by Golden Primrose, and of the choicest breeding; Duncan Stewart, of Crieff, owned the first, Wm. Scott, Stow-on-the-wold, the second.

Cows were a very good class. First went to F. Miller, on Daisy Queen, true in type, quality and style. Lord Polwarth, St. Boswell's, was second, with Butter Scotch. Geo. Harrison's fourth-prize winner, Elvetham Ruth, showed scale and quality enough to have moved her higher, with much argument. Two-year-old heifers were an attractive lot. J. Deane Willis was first with the broad-backed, level, straight, well-sprung Fairy Princess, by Prince of the Blood. W. T. Malcolm had a tasty second in Dunmore Garland, by March Past. She is a heifer hard to beat for breediness. G. Harrison's Ruth of Gainford was third. There were thirteen yearling heifers out, making a Promising and interesting lot. F. Miller received second, and R. Cornelius third with the blocky white. Fastham Belle. Best female of the breed CXXV. reserve. Champion male was awarded ing reserve.

Alnwick Favorite, with Collynie Cruickshank re-

this ring. The judges, in awarding the championship for the best breeding animal, did what we are not aware has ever been done at any show, and to this extent they were certainly original. When Metaphor won the President's medal as the best of the breed, one naturally thought he would get the breed society's prize for the best breeding animal, but the judges decided otherwise, and if they thought the cow was the best breeding animal, they placed reserve to her the two-year-old heifer, which it can be safely said has not bred The decision at a show of breeding stock appears very contradictory, but there it stands. It should be stated that the umpire, Mr. James Whyte, Hayston, Glamis, judged several of the classes, Mr. M'Laren being the breeder of animals entered. One of the old bulls was in enforced retirement. The quality of the stock is up to the average on the whole, but there is nothing sensational in evidence. The aged bull Metaphor, fresh from his victories at the Royal and Aberdeen, was placed first; Eagle of Dalmeny, belonging to Andrew Brooks, Tranent, was second; while third went to George Cran, Morlich, on Just Jeshurun, level, strong bull. In two-year-olds, R. W Hill received first on Erino, a blocky, well-covered, T. H. Bainbridge received second on Gerace of Ballindalloch, that has good winnings to his credit, and is an argumentative competitor. The yearling class was small, and was headed by Lord Allendale's blocky Elmhore, a very breedy, strong, meaty youngster; second was Lord Emerald, the property of the Earl of Strathmore. The cow class was short, but of high merit. J. Kerr's Juanita Erica took first. She is a splendid animal. Next to her stood Eramosa, the property of Jas. Kennedy. The two-year-old class also had few competitors, though good ones. The yearling heifers, perhaps, were the best class of the breed. Jas. Kennedy got first on Elmyra, a beautifully-built Erica, short, thick and stylish. H. Bainbridge was second with Belinda of Clury, and J. E. Kerr third with Enlogia, by Prince of Wassail. The cup for best cow went to the owner of Juanita Erica, the medal for best of the breed to Metaphor, as also award for best

Galloways.—The display of Galloway cattle is much better than at former shows, although there is a slight decrease, compared with the last show at Dumfries, in 1903, when there was an exceptionally fine turnout. The decrease, however, is mainly due to the large number of dispersion sales which have taken place during the interval. The quality of the exhibits to-day, and more especially of the females, is particularly good. In old bulls, T. & R. Graham took first on the 14-year-old Marchfield Despised, a very fine, quality bull Javelin, that beat him last year, stood second. He is a bull of immense scale and ruggedness. Three two-year-olds appeared, while seven yearlings came out; these last were a good class. W. & D. Wilson took first on Mascot, a promising young bull; J. M. Kennedy took second on Male championship fell to the old Niel Gow. bull. The female classes were especially good. en cows entered the ring. First went to Lady Primrose of Castlemilk, a ten-year-old cow belonging to Mr. Fox, Brockbank. Good ones stood all down the line. John Cunningham stood second with Nettie XXX. of Culmain, an exceptionally fine, breedy cow; third went to Biggar & Sons on Lizzie of Chapelton, a first-prize winner two years ago. A particularly large entry of meritorious animals entered the two-year-old heifer class. First went to Robt. Graham on Kitty of Auchengassel. The yearlings were numerous, but not sensational, save for one or two at the top. W. A. McTuit's Brownie IV. stood first, and later champion female; J. M. Kennedy's Gladys II. stood second.

Ayrshires.-In the aged-bull class was keen competition amongst an unusually large number of entries. Andrew Mitchell's well-known Peter Pan came to the head of the list. He is four years old, massive and stylish. Robert Osborne took second on Valmont, a half-brother of the winner. Two-year-olds were a strong class. James Howie had first on Sir William; Andrew Mitchell second on Silver Crest, a handsome, big bull; while Howie's Andrew Likely stood third. lings were a very large and difficult class. Eventually, James Howie's Full Bloom landed first, a splendid, thick, growthy bull. H. B. Wilson received second on Lord Darnley, and third went to Howie's Ayr Review, after a keen competition. Peter Pan was awarded male championship. ows were a splendid class. However, James Lawrie's Bloomer VIII. was an easy winner, being in every way a first-class cow. Andrew Mitchell was second with Favorite. Three-year-olds in milk were numerous, and of good quality. Charles Douglas had a clear winner in Janet, a stylish cow, of scale and milking capacity. Second honfirst on Augusta CVXV., a sensation, and one of ors fell to Alex. Hunter on Polly II. Two-year-the greatest yearlings ever seen. She is by olds did not form a large class, but had good Golden Flush. James McMillan's Rosebud was ones forward, while the yearlings were numerous James McMillan's Rosebud was ones forward, while the yearlings were numerous Cornelius third with the blocky and difficult. Best female award went to Lady Mary Stewart, John Murray's first-prize winner in Went to F. Miller's Daisy Queen, with Augusta the class cows any age in milk, Bloomer VIII. beCLYDESDALES

Clydesdales have rarely made a stronger show Aberdeen-Angus.-Much interest centered about than on this occasion. The aged-male class was well filled with a grand collection of big stal-The three-year-olds were still better. Two-year-olds had a long string of grand big colts. In the aged class were eighteen entries, nearly all forward. The judges placed the awards thus: 1, Scotland Yet (14839); 2, Gartly Bonus (13491); 3, British Time (14610): 4, Sir Spencer Scotland Yet for feet, pasterns, flat-(13211).ness of bone, cleanness of joints and size takes a lot of beating. Montgomery's Gartly Bonus is a son of Everlasting. He is a big horse with good feet, good bone, and a good walker. British Time (also Montgomery's) is a massive son of Up to Time, and a great mover. Needless to say grand horses stood beyond the ribbons. three-year-olds were twenty-one entries, mostly all The awards were: 1, Baron Ashvale (14579); 2, Memo (15313); 3, Black Douglas (14599); 4, The Right Honorable (14879); Baron Ideal (14585). Baron Ashvale, belonging to A. & W. Montgomery, is a big, upstanding bay by Rozelle (10638), out of a Hiawatha mare. He is altogether an uncommonly good horse, that fills the eye standing or going. Memo is a promising colt, belonging to Matthew Marshall, lacking some in the top of his superior, but well grounded. The Right Honorable belongs to Wm. Dunlop; he has plenty of size, good feet and flat bone. The two-year-old class numbered twentynine, and took a lot of judging. Substance and weight were much in evidence among the winners. Messrs. Montgomery's Royal Guest stood first, and the same owner's Title Deeds second, both being by Everlasting. Mr. Taylor's Sir Rudolph was third. Over twenty colts were entered in the yearling class, and mostly all appeared. First went to a powerful Everlasting colt, owned by James Kilpatrick; second to Montgomery's Royal Edward colt; third to Wm. Dunlop's Dunure Index. Baron Ashvale was made champion stallion, Scotland Yet being reserve.

Brood mares were quality ones throughout. Mr. Stephen Mitchell, of Boquhan, received a large share of the honors in the mare classes. His Blossom of Newhouse won first in brood mares; Wm. Neilson taking second on Daisy Primrose, a very close runner-up, of excellent type. Boquhan Lady Leggy easily won first in yeld mares for Mr. Mitchell, having been unbeaten this season. Nerissa, her closest competitor, belonging to J. E. Kerr, came second. Third went to J. P. Sleigh's five-year-old Everlasting mare, Lucilla. small class of three-year-olds was forward, Mr. Mitchell taking first and second on Thelma II. and Boquhan Beatrice, respectively. A very large class of two-year-old fillies lined up, and most of them had claims to distinction. J., P. Sleigh's black filly, Moira, by Baron's Pride, and own sister to Thelma II., was first; R. Chapman came second with Heather Gem, a beautiful Revelanta filly; Richard Dunn was third with a chestnut filly by Revelanta. The yearlings also come forward Wm. Dunlop got first and in great strength. third on Dunure Myrene and Dunure Sympathy, respectively, both by Baron of Buchlyvie; J. P Sleigh got second on a black filly, Elaine, own sister to Molra.

The President's medal and Cawdor cup went to Stephen Mitchell for Boguhan Lady reserve was Moira, the winner of the Cawdor cup last year.

HACKNEYS.

These made an average show: the numbers were not great and the excellence not sensational. The best stallion in the show probably was Flash Mathias, full brother to the celebrated Grand Vulcan, and perhaps his superior as a harness horse, and sprightly Danegelt, Mr. Enoch Glen's This is a beautiful mover and a two-vear-old. promising colt.

The sheep show was a grand one, Cheviots and Porder Leicesters being out in great numbers and unsurpassed excellence. Blackfaces maintained their standard in numbers and excellence. Throughout it has been a very excellent show.

Coming Show Dates.

Saskatoon, August 9th to 12th. Edmonton, August 23rd to 26th. Sherbrooke, Que., Aug. 27th to Sept. 3rd. Canadian National Exhibition, Toronto, August

27th to September 12th. John, N. B., Dominion Exhibition, Sept. 5th to 15th.

London, September 9th to 17th. Ottawa, September 9th to 17th. Charlottetown, P. E. I., Sept. 20th to 24th.
Victoria, B. C., Sept. 26th to October 1st.
Halifax, N. S., Sept. 28th to Oct. 6th.
New Westminster, B. C., Oct. 4th to 8th.
Maritime Winter Fair, Amherst, N. S., December

5th to 8th. Smithfield Club Show, London, Eng., Dec. 5th to 9th.

Ontario Winter Fair, Guelph, Dec. 5th to 9th. Toronto Fat-stock Show, Union Yards, December 12th and 13th.

Winnipeg Exhibition.

The Winnipeg Exhibition, held on the dates July 13th to 23rd, despite excessively hot weather, was a decided success, both in the number and quality of the exhibits and the attendance of visitors, the gate receipts being unusually satisfactory.

THE CATTLE.

The cattle exhibit at Winnipeg this year was acknowledged to be the strongest yet seen in Western Canada. The judges were: Shorthorns, F. W. Harding, Waukesha, Wis.; Herefords, Angus, Galloways-Prof. Andrew Boss, of Minnesota State Agricultura! College; Red Polled-Prof. W. J. Rutherford, Regina, Sask.; Holsteins, Ayrshires, Jerseys-H. G. Clarke, of Georgetown, Ont.

The principal exhibitors were: A. S. White and Leslie Smith, of St. Cloud, Minn.; Sir Wm. Vanhorne, East Selkirk, Man.; J. G. Barron, of Carberry, Man.; H. L. Emmert, East Selkirk, a new exhibitor; P. M. Bredt & Sons, Edenwold, Sask.; W. H. English, Harding, Man.; R. W. Caswell, Saskatoon, and R. L. Lang, of Oak Lake,

Shorthorns.-In a strong class of bulls three years and over, Barron was first with the white Mistletoe Eclipse; the Van Horne herd second, with the roan Huntlywood; W. H. English third with Mikado. The rating in the two-year-old section was: First, White & Smith's roan Ringmaster, the senior and grand champion bull of the breed, second in the class being Emmert's roan ()akland Star, and third Van Horne's His Majesty. English won in the senior yearling class with the red Lancaster Lad, White & Smith being second with Primrose Knight, and Lang third with Fairiax. R. W. Caswell was first for senior bull calf with Golden Star, and first in junior section was the Van Horne entry. The junior champion was Van Horne's Imp. Boquhan Hero, the first-prize junior yearling, purchased at the Perth sale in February In the class for cows, the first and second awards went to Van Horne's red Mina Princess 4th and Spicy's Lady, white, the grand champion at Toronto last year; third was the roan Dorothea 2nd, an International champion of former years. In two-year-old heifers, Emmert was first with Susan Cumberland, in a class of eleven; Van Horne's Spicy's Rose was second. In the senior yearling section, White & Smith won with Gloster Queen; second was Van Horne's Flower Girl, and third Emmert's Spring Grove Butterfly. yearlings were seven, the first being White & Smith's Sparkling Gem; second, Barron's Blossom; third, Bredt & Sons' White Rose. White & Smith were first for senior heifer calf, and R. W. Caswell first for junior. The senior and grand champion female was Emmert's first-prize two-year-old, Susan Cumberland, and the junior champion was White & Smith's first-prize senior yearling, Gloster Queen. The herd prizes for bull and four females in the open class went first to Van Horne, second to White & Smith, third to Emmert. For young herd, under two years, the placing was: First, Van Horae, second, White & Smith; third, Emmert.

Herefords—The competition in the Hereford classes was confined to the herds of William Shields, of Brandon, and Geo. H. Gray, Austin. Manitoba. Mr. Shields was successful in winning tourteen firsts and five second prizes, and the grand championship in bulls and females, the first with Happy Christmas, and the second with Princess of Island Park, both noted winners in Hereford circles. Mr. Gray scured first and second for junior yearling bull, and first for heifer two years old, in addition to a number of second prizes. Shields won the herd prizes, both junior and senior.

Aberdeen Angus.-The competition in Aberdeen-Angus was also confined to two herds, both of them with long records of successes. One was the J. D. McGregor herd, from Brandon, and the other the James Bowman herd, of Guelph, Ontario. In the aged bull class, McGregor's Golden Gleam secured first money, although Bowman's herd-header, Magnificent, gave him a good run for his money Magnificent is but three years old, and with a hit tle more development he may easily defeat his competitor. As it was, he had a number of favorites, although the judge favored Golden Gleam Again, in the cow class, three years and over, McGregor's Violet 3rd of Congash made a decided hit. This animal was champion at the Royal She possesses that smoothness Show last year. and quality so characteristic of the Angus breed. The McGregor herd cleaned up twelve firsts and four seconds, and the Bowman herd three firsts and ship, and also the herd prizes

Galloways. The Galloway competition was contined to one herd, owned by Colonel McCrae, of Guelph, Ontario. Mr. McCrae had an entry of sixteen annuals of merit, but, owing to lack of competition, there was little interest manifested during the time the awards were being made.

DAIRY CATTLE

A splendid representation of Holsteins, Ayrshires and Jerseys entered the lists this year,

demonstrating their increasing popularity and usefulness in the West. Many animals of the best breeding and performance were on hand. The Holsteins were especially strong, having twenty competitors in the aged cow class. There were nine exhibitors of this breed. A. B. Potter, of Langbank, won first in aged bulls on the well-known Sarcastic Lad. In the two-year-olds, Gibson & Scott led with Josephine Tease Sir De Kol; J Herriott won second on Sir Midale Sir Hengerveld, and C. E. Smith, of Scotland, Ont., third on Lakeside Model Wayne. In yearling bulls, Homer In that excellent ring of aged Smith was first. cows, H. Smith, of Winnipeg, won first, second, third and fifth, his first being Faforit 10th's Beauty. In two-year-old heifers, A. B. Potter took first and second. In herd of one bull and three females, H. Hancox, of Dominion City, was first, and C. E. Smith second.

With Ayrshires, five exhibitors were out. J. M. Bruce, of Lashburn. Sas'c., and A. H. Trimble, of Red. Deer, Alta., being the chief competitors. Bruce took first in the three-year-old, and again in the two-year-old bull class, and second in the yearling. Trimble took second in the aged bull, and first and third in the yearling bull class. Bruce took the majority of firsts and seconds in the cow classes. Trimble contesting it closely. The first prize for herd fell to Bruce, with Trimble's second, and Hazelwood's third.

Two herds contested for the Jersey honors, being those of B. H. Bull & Son, Brampton, Ont., and Joseph Harper & Sons, Kinley, Sask. Six others had entries, but were largely outdistanced. The honors were fairly evenly divided. Bull & Son won first in aged bulls, in two-year-olds, second in yearlings, first in bull calves, and champion bull (Brampton King Edward). In cows, Bull & Son got second in aged class, first in two-year-old heifers, first and second in yearling heifers, and in both junior and senior heifer calves. Bull & Son's Rochette's Golden Beauty, the first-prize two-year-old heifer, was made champion female. All together, the dairy show was a decided success.

THE HORSES.

Clydesdales.—Clydesdale entries were far in excess of a year ago, recent importations increasing the list of competitors in nearly all sections. Quality was of high order, and much size was presented, so that, all in all, this was the best Clydesdale show ever seen in Winnipeg. Exhibitors were present from both Ontario and Saskatchewan to contest the honors with the Manitobans.

Wm. Carter, Stillwater, Okla., placed the rings. ever sticking to the deep, thick-bodied, massive draft type, and, since quality was plentiful, the winners were splendid types. Aged stallions-Nine stallions entered, the most of them being horses of reputation. In their final ranking, Royal Choice, belonging to Traynor Bros., Condie, Sask., stood at the top. He is a horse of magnificent proportions, weighing over a ton, showing splendid bloom, despite a hard season on the road, and having a full share of bone of the right Next to him stood Polar Star, the property of Colquhan & Beattie, Brandon, another horse of size, strong bone, shapely feet, and desirable action. A six-year-old imported horse stood third, with a good display of style, action and substance Troian, the property of P. M. Bredt & Sons, Edenwold, Sask., too's the fourth ribLon. Three-yearold stallions.-Again nine horses contested for the and size into the fray. Ontario representatives carried the day in this class, Graham Bros., of Claremont, Ont., taking first on The Bruce, a very flash Reveranta colt of good size and masculinity They also took second on The Ivy, a Baron's Pride colt, that, for massiveness, combined with quality, is very engaging. Third went to T. H. Hassard on Royal Cak, and fourth to R. H. Taber, Condie, Sask, on Lumloch Laird. Twoyear o'd stallions. Ten good ones met in this ring. First fell to Graham Bros. on Baron Chap manton, a thickly-built colt, with a pleasing finish and strong bone of good quality. Next to him stood D. McLaren's Baron Headlight, an impres Next to him sive-looking colt, while Bredt took third with Baron of Edenwold, and Graham Bros.' Solway King ranked fourth. Yeld mares.--This class contained nine competitors, and was headed by Mayoress, the well-known property of Traynor Bros. She is a mare of grand size and nice proportions, and pleasing quality. Sir Wm. Van Horne's Princess Royal, with her neat, beautiful place, while his Polly Wilson, much after the same pattern, come next, with Bredt's excellent Trene ranked fourth, keenly contesting the ground with those above her. Two year-old fillies.- This class contained some choice ones. Graham Bros. took first on Sea Breeze, an imported filly, sired by Lord Aiton; second went to Van Horne on Mis-Molly, an Everlasting filly; while third went to Bredt & Sons, and fourth to M Gibb Vearling fillies. In numbers, type, quality and individual excellence, this was a very pleasing class. May Morning, a beautifully balanced strong, clean boned flly with good feet and action, belonging to Graham Bros, clearly went first. Bredt & sons had a stylish one in Pirene for second, while J. Burnett captured third, and J. C. M. Johns tourth. The championship for stallion was awarded

to Graham Bros. on the first-prize three-year-old, The Bruce. The championship mare proved to be the massive Mayoress, belonging to Traynor Bros.

While the classes provided for Canadian-bred Clydesdales or Shires were not as full as one might desire, they contained good ones. The champion stallion in this section was Baron's Headlight, the property of D. McLaren, a two-year-old of splendid draft type, plenty of size and nice quality. The champion mare was Royal Gem, by Baron's Gem, belonged to Traynor Bros, and is a very typical, attractive three-year-old.

Percherons.—The Percheron exhibit was in every way creditable. Deputy Minister Rutherford, from Saskatchewan, judged them, and in some classes had plenty to do. Ellison, from North Dakota; Colquhan & Beattie, from Brandon; and H. O. Hutchins, of Keller, Sask., were the exhibitors. The Brandon consignment was especially strong in stallions, among the lot being Blondin, well known in Western Canada, while Ellison won the majority of the female classes. Hutchins took a fair share of the honors on some

very pleasing animals.

Shires and Belgians.—The exhibits in these classes were light, the Belgians having one exhibitor, the Shires three. The animals were of very good type and quality, however. J. Stott, Brandon, carried off most of the Shire honors.

Light Horses.—Space does not permit of a complete review of the light horses. The exhibit was strong in nearly all sections, and the entries came from many widely-scattered points in the West, East and South, although the City of Winnipeg contributed the largest part of the display. Hackneys were strong in the aged stallion and mare classes; roadsters and Standard-breds showed in good numbers, while the sections for carriage horses, coachers, jumpers, saddlers, special harness classes and ponies were well filled, and received their due attention.

The heavy-harness classes, saddle horses and ponies were judged by G. B. Hulme, New York, Dr. G. A. Routledge, Lambeth, Ont., placed the awards in the light-harness classes. In the class for aged Hackneys, first place went to T. H. Hassard's Marion Cassius; second went to Robt. Taber, on Copmanthorpe Swell, and third to P. B. Ross, Grenfeli, on Velvet. This section was the most keenly-contested in the Hackney class.

SHEEP.

Prof. W. J. Rutherford, of Regina, judged the sheep.

The Leicester class was the largest represented, and contained some of the best animals on the ground. Alex. MacKay, of Macdonald, Man., was the principal winner, capturing the championship prizes, and the special for the best four lambs of any breed bred and owned by the exhibitor. Other exhibitors were A. B. Potter, Langbank; J. Jasper, Harding, and T. A. Cox. Brantford, Ont.

Cotswolds were shown by T. A. Cox and F. Orchard, who divided the prizes, the first named securing the best of it.

Shropshires were shown by T. A. Cox, W. L. Trann, and F. T. Skinner, the majority of first prizes going to Cox, who won the champion and flock awards.

Oxford Downs were well shown by Peter Arkell & Sons, of Ontario, who practically cleaned up the prize list

Southdowns were exhibited by T. A. Cox and Wm. Smith, of Ontario, among whom the prizes were divided.

SWINE

Competition was good in most of the swine classes. H. G. Clarke, of Georgetown, Ont., made the awards.

Yorkshites were well shown from the Van Horne Farm at East Selkirk, and by A. B. Potter, J. J. Stewart, W. L. Mortson, and W. H. English, the male and female championships going to Potter, and the herd prize to the Van Horne entry.

entry.

Beckshires were shown in goodly number and of fine type by T. A. Cox, Ontario; D. A. Fraser, R. L. Lang, W. V. Edwards, and R. Lumgair. Cox won most first awards on sows, and the first herd prize. Lang had the champion boar, and Cox the

Tamworths were forward from the herds of F. Orchard and M. H. Hicks, who divided the prizes, Orchard warning the male championship, and Hicks the female championship.

Wheat Crops of 1910.

The International Agricultural Institute, Rome, gives the world's yield of wheat, estimated July 181 as solows. Italy, 185,495,530 bushels, compared with 155,711,230 bushels last year; Hangary, 202,096,455 bushels, compared with 125,863,287 last year. British India, 358,151,465 bushels, compared with 284,314,778 last year; Rosmanda, 131,001,750 bushels, compared with 250,001,0015 last year; Japan winter wheat, 20,779,745 bushels compared with total winter and 85 and code of 23,581,000 bushels last year. Condition spring wheat 128, compared with last spin crops. Great Britain condition, 101, compared with tensor of victors of compared with respectively.

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910. nstitute, Rome, stimated July 5.530 bus**hels**, els last year; ompared with a. 358,151,465 78 list year; compared with er wheat, 20,tal winter and ast year. Con-ared with last ion, 101, comEast York Observations.

Harvest is well in hand. The hay crop has The fall wheat is above the average been good. both in yield and in quality. The oats and barley are somewhat short in the straw in many cases, though it is significant that farmers who feed extensively for the beef market, or who pay considerable attention to dairying, have an abundance of both grain and straw. The persistent drouth of June, and of the early weeks of July were hard on the pastures, and those men who had not provided against this contingency by havnad not produce the succulent fodder crop, found that the milk yield fell off considerably. The practice in vogue on some dairy farms, of sowing a seeder width of peas and oats for fodder purposes around the grain fields, has proven beneficial. It means succulent food when the pasture fails, to say nothing of preventing waste by providing a clean path At any rate, it is found expedient for the binder. to provide fodder crop for the drouth that seems to be a feature of every summer.

The fruit crop promises to be light. The fruit set nicely, but the long drouth precipitated the young iruit to the ground most universally.

The root and corn crop are both looking well The fine rain of the last week in July did both these crops a world of good. Nearly every farm has its silo, and every barn has its cellar, hence the welcome given to the rain.

Arrangements are being made for the holding of short course in judging live stock and farm seeds. The meeting is expected to take place in Markham in January, 1911, and will be under the direction of the Provincial Government. Every effort will be put forth to make this two-day course interesting, because instructive. It is to be hoped that farmers and their sons will take an active interest in this matter, and so justify the labor and money

The directors of Scarboro' Agricultural Fair are offering fifty dollars in prizes for the three schools presenting the most complete collection of farm weeds. Last year a similar competition brought out some really fine collections of weeds. farmers in this locality are alive to the seriousness of the weed menace, and this is one way in which the children and others are encouraged to familiarize themselves with these robber pests. It is a pity that farmers generally were not more alert in the matter of detecting the advent of new weeds, having them identified at Guelph or Ottawa, and apprising their fellow agriculturists of their danger.

York Co., Ont.

Athletics in Rural Communities. Editor "The Farmer's Advocate":

To-day we read a great deal in magazines and farmers' papers about the young men of the country becoming discontented with the farm, and choosing occupations in the city. All writers do not agree as to why, or as to a remedy. That such is the case, is not only a fact, but it is a most lamentable fact. That the farm offers a more profitable and independent occupation than most work found in cities, is, I think, one thing that all writers agree upon. The thing is, therefore, how best to keep the young men interested in the farm. The introduction of athletics into a neighborhood in the country, I believe, would be Farmers of the a step in the right direction school will, no doubt, ridicule this idea. will claim that, after a boy has performed his day's work, he would not be fit for work on the coming day if he indulged in athletics; that he gets plenty of exercise on the farm. That farmers, as a rule, do get lots of exercise, is a fact which I would not attempt to dispute, but does Roys between the this satisfy the farmer's son? age of seventeen and twenty-four must have some kind of recreation, and if they can't get the good healthful kind, they will have some kind. these days, young boys are too apt to drift up town in the evenings, and spend their time in In the locality where I was questionable places. raised, some of the older men encouraged the boys to organize a football club; they gave it their support, and encouraged the boys in every way. Apart from it being a most successful club-in fact, it won on a number of occasions the championship of Western Ontario-the boys who played in the club, and those who were members, are to-day model young farmers. Out of some twenty-five boys who graduated from the club, not one of them, as far as I know, knows the taste of This only goes to show that boys do not naturally turn away from the farm. only when the farm and the farming community cease to be attractive and interesting that they look elsewhere.

Farmers, since the commencement, have always been considered slow. Many a splendid business transaction has been lost to him because of his inability to come to a quick decision. playing football, baseball, and such games, simply have to think fast. In time they become so accustomed to it that, instead of "waiting," which is a lavorite method employed when something of importance turns up, they give their decision quickly, clearly and intelligently, and thereby get the start of the fellow who is only thinking. In

playing games in the country and surrounding of men; he makes acquaintances in a great many different places, which in after-life may prove of untold value.

In comparing the farms where the father did everything in his power to discourage sport, and would not allow his boy time to indulge, with those where he gave his boy a day off once in a while to play, and contributed to the expenses of the club, the difference in favor of the latter is apparent to even the most conservative.

Farmers would do well to look further ahead than to-morrow; encourage the boys in anything that will keep them interested in the farm and the As the saying is, you will not miss the day he loses when you are eating next Christ-R. H. ABRAHAM. mas turkey. Kent Co., Ont.

An Economic Reaction.

I am loath to attempt to answer through the press Mr. Flavelle's letter, as some things which must be said in answer neight be misconstrued. I believe Mr. Flavelle wrote the said letter with the honest intention of doing good, of helping our farmers, in the doing of which he would be helping the country in general. But, as I see it, he has not got at the true cause of the high prices of food products, at least not at all that goes to make up the cause. The letter asks, "Why are food products at extreme prices in Canada?" and then discusses the reasons. Among other things he says: "Congested Europe is being supplied, or is supplying itself, with many lines of food products at prices below present values in Canada," and then proceeds to give the reasons why He also says: "No serious consideration has been given to the added demand occasioned by the extended markets which have been opened to the producers of Canada through the enterprise of manufacturers and distributing merchants, who have brought to the problem fine courage and high intelligence."

I can assure you, Mr. Editor, and Mr. Flavelle, as well, that the farmers of Ontario have given much thought to the question discussed in the letter referred to, but, through scarcity of help, they find their hands tied, and, instead of showing themselves lacking in thought and vision and business enterprise, they have, by the very things Mr. Flavelle complains of, shown they can and have adapted themselves to a condition forced upon them. It has not been of their own seeking. There was a cause, and now we have the effect, which could not help but follow. The tariff conditions enabled the manufacturer to pay a higher wage for labor than the farmer could a:ford to pay. We lost our young men from the country who should have been producers and helped with the intensive farming and a greater production, but they became consumers, instead. In conversation with a farmer, a few days ago, he said : "There are more good plowmen in city of Toronto than in the County of Durham. We could not afford to pay the wages, so we lost them." The labor question has assumed serious proportions in Ontario. No wonder congested Europe could produce cheaper food products. Labor, not land, is what did it. The greatest problem facing the statesmen of the future is how to keep enough men on the land to make it produce the food required, cheap enough for the consuming masses. (I speak of the statesmen, not the politicians. The latter care not about such problems, so long as they get into office. We have too many politicians in Parliament.) We will never do it by high tariffs. Canada is getting today just what she has asked for, and what some of us knew must surely come as a result of the conditions forced upon us by the different organizations of manufacturers. Farmers saw they could not prevent such conditions, so made the best of them. It is not so easy for them to organize as it is for the manufacturers, hence the conditions. I was talking to a farmer a couple of days ago about Mr. Flavelle's letter. He said: "I was keeping quite a number of cows, and sending milk to Toronto, and it paid, but I had to quit it because I could not get help." Another said: "I am ashamed of the weeds on my farm, but I cannot help it; I can get no help: I am about dis-Another said: "I am working 200 couraged." acres, and I cannot get a man; what am I to do?" Yet another said: "My wife and I are slaves because we cannot get help." There is a cause for all this, and it is not as Mr. Flavelle says, "because farm help is not treated well." He simply does not know the conditions, or he never would have made such a statement, and should, in all honesty, apologize to the farmers of Ontario for saying so. The hired man eats at the same table as the farmer and his family; he gets seasons.-[Extract from Janey Canack in the West.

better food than any man in the city who has to towns, the young farmer gets the rough, rustic buy his food second-hand; he has as good sleepedge worn off; he meets all kinds and conditions ing accommodation as the average hotel gives; he does not work as hard as the farmer does, and not anything like as hard as the mechanic; neither does he work as long hours as the mechanic, take it the year round, and he gets the purest air that What more would Mr. heaven affords to breathe. Flavelle give him?

The conditions in Ontario are forced conditions, and the farmers have shown, by adopting a mode of farming calling for less labor, though it may not give the greatest returns, that they are not so lacking in vision and business enterprise as They have suited themselves to the forced conditions, and the country is reaping what it sowed. Instead of having dear machinery, we should have it as cheap as possible. We cannot get manual labor, and that should be offset by cheap machinery to enable us to do the work. Everyone who keeps cows should have a cream separator; but look at the price at which they are No one pretends to defend the price at which the cream separator is sold by the cost of production; and what is true of the cream separator is true of a great many other lines of machinery. Tariff regulations enable the manufacturer to take away our laborers to build machinery to sell to us at high prices. Every farmer should have a hay-tedder, but every farmer can't afford it, however much he might like one. We also should all be able to buy a small gasoline engine for the purpose of assisting in the work of the house-to turn the high-priced cream separator, the churn, the washing machine, the wringer, and also furnish light, perhaps not as much as one horse-power, but light convenient and

Mr. Flavelle says the orchard acreage has been reduced. That may be true of Western Ontario, where the San Jose Scale and other pests have compelled farmers to abandon apple culture, but the Lake Ontario district has doubled its acreage in the last ten years.

Then, the hog question. That is what Mr. Flavelle is more interested in than any other. I have known several times that farmers did produce an oversupply of hogs, and did get a price less than the cost of production. "A burnt child dreads the fire." The farmer has to be careful, lest the same conditions prevail again. If farmers were assured of a fair profit on the hogs after they had fed them, the supply would increase; but that kind of thing works its own cure. A steady price will go a long way to securing a constant supply.

I have just returned home from a three-weeks' drive among the farmers of Durham County. have been talking to them about how to grow clean clover seed, and how to have less weeds on the farm, and I should know something of how difficult it is for farmers to get the necessary help

to do their work. SEC. WEST DURHAM FARMERS' INSTITUTE.

July Crop Report for P. E.

The weather has been ideal for crop growth in Prince Edward Island this year. As a conse quence, most crops are reported very favorably. Hay in both quantity and quality has been ex cellent. The outlook for wheat is good; oats have seldom looked better at this time. There is a considerable increase in barley, and, except on low lands, it is excellent. Corn is much below the average, but is improving. The potato crop has been quite a miss this year, and the beetles are much more in evidence than is usual, so that this crop will be shorter than usual. Root crops promise an abundant yield. The fruit crop is not promising. There will be few early apples, and about half a crop of fall and winter varie-Better methods are being practiced in orcharding, more trees are being set out, and more strawberries are being planted. The pastures have been splendid all season. There has been an increase of about twenty-three per cent. in the amount of milk received this year over last year, up to July 15th, while the increase in cows has been but five per cent.

Manitoba Elevators.

Splendid progress is being made by the Manitoba Elevator Commission. Up to date, there are nine elevators owned and operated by them, with deals for several more pending. There are nine new elevators in course of erection, and new sites are being selected for still others. The Commission estimates that over 200 petitions have been presented to them, and they are coming in at the rate of from three to six per day now. Fully half of the privately-owned elevators have been offered to the Commission. Every offer receives consideration, but the price is the chief obstacle in the way of transactions.

I like to follow in the wake of the gang-plows, that I may drink in the odor of the newly-turned fand. It is the most strangely subtle odor in the world. It is the concentrated essence of the four

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MARKETS.

Toronto.

LIVE STOCK.

At Toronto, on Monday, August 1st. receipts were 72 cars, comprising 1,368 cattle, 274 hogs, 364 sheep, 79 calves. Quality of cattle medium to good; trade Exporters, steady, at \$6 to \$6.75, and one load, \$6.80; bulls, \$5 to \$5.75; prime butchers', picked, \$6.25 to \$6.50; loads of good, \$5.75 to \$6; medium, \$5.25 to \$5.50; common, \$4.75 to \$5; cows, \$3 to \$4.75; milkers, \$45 to \$80, and one registered Holstein, \$100, calves, \$3 to \$3.75 per cwt. Sheep, \$4 to \$4.25; lambs, \$6 to \$6.75 per cwt. Hogs, \$9.35 to \$9.40, fed and watered; \$9 to \$9.10, f. o. b. cars at country

REVIEW OF LAST WEEK'S MARKETS Receipts of live stock at the City and Union Stock-yards for the past week were as follows:

	City.	Union.	Total.
Cars	206	233	439
Cattle	3,151	4,137	7,288
Hogs	3,631	2,365	-5,996
Sheep	3,627	1,140	4,767
Calves	642	235	877
Horses	2	144	146

The total receipts at the two yards for the corresponding week of 1909 were as

	City.	Union.	Total.
Cars	183	219	402
Cattle	2,247	3,787	6,034
Hogs	3,296	1,094	4,390
Sheep		1,511	6,119
Calves	609	218	827
Horses		120	120

The above figures show a total increas of the combined receipts of live stock at the City and Union Stock-yards of 37 carloads, 1,254 cattle, 1,606 hogs, 51 calves, and 26 horses; but a decrease o 1,352 sheep, as compared with the corresponding week for 1909.

At the Union yards on Monday, the receipts were the second largest in the history of the market, and all handled by the C. P. R. There was an active trade, over 3.100 cattle being sold before the close of the market, although price declined from 10c. to 15c. for butchers and 15c, to 25c, on exporters. At the City market on Tuesday and Thursday the receipts were heavier than usual, nearly all being brought in by the C. P R., in fact, only a few cars came in ove the G. T. R. during the week. Notwith standing the strike on the G. T. R. thera were more cattle than was needed to supply the demand. As usual, the qual ity of cattle at the City yards generally was medium to common, few good bein offered. On Wednesday and Thursday, a hig dose of common to medium butcher than was anticipated, and decidedly mor than was required to supply the demand.

After the large run at the Union yards | 12c. for twins; old, 12ic. for large, and on Monday, buyers had a poor appetite for such large offerings at the tail-end of the week. The consequence was that even the few good cattle on sale sold from 25c, to 40c, per cwt, lower than at

the Union yards on Monday, and the common to medium declined from 25c. to 50c. per cwt., and should heavy deliveries continue, prices are certain to go still lower. At the Union yards on Monday, prices were as follows:

Exporters.—Export steers sold from \$6 to \$6.85; bulls, \$5.25 to \$5.60; heifers, \$6 to \$6.40. Some cattle for the Manchester market sold as low as \$5.85.

Butchers'.-Prime picked lots, \$6.25 to \$6.50; loads of good, \$5.75 to \$6; medium, \$5.25 to \$5.70; common, \$4.50 to \$5; cows, \$3.50 to \$5 per cwt.

At the City market there were no exporters, and the butcher cattle sold at the following quotations: Picked lots of one, two, and three head, sold at \$6 to \$6.20; loads of good, \$5.75 to \$6; medium, \$5 to \$5.50; common, \$4.50 to \$4.90; cows, \$2.50 to \$4.75; but few cows sold at the latter quotation.

Stockers and Feeders.-During the week prices for stockers and feeders ranged as follows: Steers, 850 to 1,000 lbs., at \$5 to \$5.50; steers, 700 to 800, at \$4.50 to \$4.75; stockers, at \$3.75 to \$4.25.

Milkers and Springers.-There was a strong market for good to choice milkers and springers all week, at both markets, the principal buyers being from Montreal. Prices ranged from \$40 to \$65, a few brought a little more, and one extraquality Holstein springer brought \$95.

Veal Calves.-Calves never sold at higher prices at this season of the year. Prices ranged from \$3 to \$7.50, and as high as \$8 per cwt.

Sheep and Lambs.-Ewes sold at \$4 to \$4.25; rams, \$3 to \$3.50; lambs, early in the week, sold up to \$8 and over, but at the close of the week they sold at \$6 to \$7.25 per cwt., or a drop of about \$1 per cwt. Hogs.-Receipts of hogs were light, ow

ing to the strike. Selects, fed and watered, at \$9.70 to \$9.75, and \$9.40 to drovers, f. o. b. cars at country points. Horses.-J. H. Smith, manager of the Union Horse Exchange, reports a quiet, but steady, trade for horses. The railway strike has militated to a certain extent against getting a certain number of horses that was expected this week, although about 100 arrived at the stables Several sales and shipments were made to Eastern and North-western Provinces, as well as to local points in Ontario. The city trade was fairly good. Prices ruled as follows: Drafters, \$200 to \$230, with a few toppers at \$250; general-purpase \$180 to \$225; expressers, \$150 to \$220 drivers, \$100 to \$200; serviceably sound

\$35 to \$90. BREADSTUFFS.

Wheat.-Old No. 2 winter, \$1.09 to \$1.10, nominal. Manitoba-No. 1 north ern, \$1.18; No. 2 northern, \$1.15, track lake ports. Rye-No. 2, 68c. No. 2, 70c. to 71c., outside. Buckwheat -No. 2, 51c., outside. Barley-No. 2 52c. to 53c.; No. 3X, 50c. to 51c.; No 3, 45c. to 47c., outside. Oats-Cana dian Western, No. 2, 45c.; No. 3, 434c lake ports; Ontario, No. 2, 39c. to 40c outside. Corn-No. 2 yellow, 731c.; No 3, 724c., Toronto freights. Flour-On tario 90 per cent, winter wheat patents for export, \$1.30 to \$1.50, in buyers bags, outside. Manitoba flour-Toronto prices: First patents, \$6.20; second pa tents, \$5.70; strong bakers', \$5.50.

HAY AND MILLFEED.

Hay Baled, in car lots, old is scarce at \$16 for No. 1; No. 2 old, \$11 to \$13.50; new, \$12.50 to \$13.50, all on track. Toronto.

Straw-Baled, in car lots, on track Toronto \$7 to \$8.

Bran.-Manitoba bran, \$20 per ton shorts, \$22, track, Toronto; Ontario bran, \$20 in bags. Shorts, 50c, to \$1 per ton more.

COUNTRY PRODUCE.

Butter.-Receipts are still large, and prices firm for good quality, as follows Creamery pound rolls, 24c. to 25c creamery solids, 23c, to 24c; separator dairy, 21c. to 22c.; store lots, 19c. to

Eggs.-Receipts not quite as large Prices steady, at 20c.

Cheese New cheese quoted at 111c. to 90 lbs.

12%c. for twins. Beans.-Market steady, but firm, Hand-

picked, \$2.15 to \$2.25; primes, \$2 to \$2.10.

Potatoes.-Old potatoes, in car lots, are about done. New potatoes, American, \$2.25 to \$2.50 per barrel; new, Ontario potatoes, are scarce, and worth about \$1 per bushel.

Poultry.-Spring chickens alive, wholesale, were fairly plentiful, at 16c. per lb.; spring ducks, plentiful and cheap, at 11c. per lb. alive; hens, 13c. per lb.; turkeys, 15c. per lb. alive; pigeons, \$1.25

HIDES AND WOOL.

E. T. Carter & Co., 85 East Front street, have been paying the following prices: No. 1 inspected steers and cows, 9 c.; No. 2 inspected steers and cows, 81c.; No. 3 inspected steers, cows and bulls, 7½c.; country hides, 8c. to 8½c.; calf skins, 11c. to 13c.; horse hides, No 1, \$2.75; horse hair, per lb., 30c.; tallow, per lb., 5c. to $6\frac{1}{3}$ c.; lamb skins, 25c to 30c.; wool, unwashed, 13c. to 14c.; wool, washed, 18c. to 20c.; wool, rejections, 15c.

FRUITS AND VEGETABLES.

Receipts of the seasonable Canadian fruits and vegetables have been fair, and prices ranged as follows: Blueberries, \$1 to \$1.25 per basket; cherries, basket, \$1 to \$1.25; currants, black, basket. \$1.25; currants, red, basket, 50c. to 65c. gooseberries, per crate, 75c.; Lawton berries per quart box, 14c. to 15c.; raspberries, 9c. to 11c. per quart; watermelons, 30c. to 40c. each; beans, basket, 35c. to 40c.; beets, per dozen, 20c. to 25c.; cabbage, home grown, \$1.50 to \$1.75 per crate; celery, bunch, 50c.; cucumbers, basket, 65c. to 75c.; eggplant, basket, \$1.25; green peas, basket, 35c to 40c.; onions, Spanish, per crate, \$2.75; green peppers, basket, 60c. squash, crate, \$1.25.

Montreal.

Live Stock.-Shipments of cattle from the port of Montreal for the week ending July 23, amounted to 2,618, against 2,875 the previous week, 305 sheep also having been shipped. Notwithstanding the Grand Trunk strike, the price of live stock held fairly steady on the local market last week. Outside buyers bought quite a quantity, but, on the whole, the hot weather was against trade. Choice steers sold as high as 6%c. per lb., fine at 6½c., good at 5%c. to 64c., medium at 5c. to 51c., and common at 4c. to 5c. Calves were about steady, selling at \$3 to \$12 and \$13 each. Yearling sheep were in good demand at 3½c. to 3¾c. per lb., while spring lambs ranged from \$3.50 to \$5.50 each, according to quality. The strike on the G. T. R. seemed to affect the price of hogs somewhat. At any rate, prices advanced considerably and demand was good, sales taking place at $10\frac{1}{2}$ c. to $10\frac{3}{4}$ c. per lb.

The demand for horses continued fair and the trouble of getting them through out the country is just as great as ever Some think that the result will yet be that prices will have to advance. Buyers, however, seem to entertain another view, and are not prepared to grant advances. Prices are as follows: Heavy draft horses, weighing from 1,500 to 1,700 lbs., \$275 to \$350 each; light draft, weighing from 1,400 to 1,500 lbs. \$225 to \$275 each; light horses, 1,000 to 1.100 lbs., \$100 to \$175; inferior and mals, \$50 to \$100 each, and fine saddle and carriage animals, \$350 to \$500 each

Dressed Hogs and Provisions - The mar ket for dressed hogs advanced in sym pathy with that for live. Sales took place at 141c. to 141c., but buyers wer unwilling to grant the advance, and trade resumed 14c. level. Otherwise, the market for provisions was about steady. Large hams, weighing from 25 lbs. upwards sold at 17c. per lb : 18 to 25 lbs . 18c. medium sizes, 13 to 18 lbs., P.c., extr. small hams, 10 to 13 lbs., 20c. per lb

Potatoes.-The crop in Quebec Province is doing nicely, and quality is time. New potatoes are offering in limited quantity at \$1.25 to \$1.40 per barrel usually, al though early in the week some stock was picked up at a great deal less. Bas weights are 80 lbs American stock a \$2.75 per barrel. Some old Green Me. tains are selling at Suc to Sac per

Che Canadian Bank of Commerce

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Branches throughout Canada, including Toronto, Hamilton, Montreal, Charlottetown, New Glasgow, and Truro.

Eggs.-It is claimed that the G. T. R. strike has had the effect of putting prices up. Buyers are now reported to be paying 16c, in the country for straightgathered, these being sold here at 19c., selects selling at 23c., and No. 1 candled at 20c. New-laid eggs are quoted at 26c. per dozen.

Butter.-It seems that the market had gone a little above export level, and that prices are now a fraction lower, being about 224c, for best Quebecs, and 22 c. to 23c. for finest Townships, other grades being fractionally lower.

Shipments from Montreal are 5,200 boxes, since the first of the season, as against 7,600 for the corresponding period of last year. Cheese.—The market for cheese shows a

firmer tendency and prices are a shade higher, Quebecs and Townships being $10^{3}_{4}c.$ to 11c. per lb., and Ontarios being $11\frac{1}{8}c$. to $11\frac{1}{4}c$. per lb.

Shipments to date from the port of Montreal are 675,000 boxes, against 710,000 a year ago.

Grain.-The market for oats showed little change as compared with a week ago, being 45½c, to 46c, per bushel, carloads, ex store, for No. 2 Canadian Western, and 44½c. to 45c. for No. 3, No. 1 barley being 54c., and No. 4 being 50c.

Flour.-Prices of flour steady and firm, being \$6.30 per barrel for Manitoba patents, firsts; \$5.80 for seconds, and \$5.60 for strong bakers. Ontario winter wheat patents being \$5.50, and straight rollers being \$5.25.

Feed.-Good Demand for bran at the recent advance, being \$20.50 to \$21 per ton, in bags, for Ontarios; middlings being \$22; pure grain mouille being \$33 to \$34, and mixed being \$26 to \$29. Manitoba bran, \$20, and shorts, \$22. Cottonseed meal, \$27.

Hay.-No change in the market for hay, prices being \$14.50 to \$15 per ton for No. 1; \$13.50 to \$14 for No. 2 extra, and \$12 to \$12.50 for No. 2; clover mixed being \$10.50 to \$11, and clover

being \$9 to \$10 per ton. Hides.-As predicted a week ago, the price of hides went lower. Uninspected hides, 8c. per lb.; No. 3, 8c. per lb.; No. 2, 9c., and No. 1, 10c. Calf skins, steady, at 12c. for No. 2 and 1ic. for No. 1. Lamb skins, 25c. each, and horse hides, \$1.75 for No. 2 and \$2.50 for No. 1. Tallow, 14c, to 5c, per lb. for rough, and 5c. to 6c. for rendered.

Cheese Markets.

Brockville, 1,710 colored and 1,440 white offered, at 10 11-16c; none sold. Vankleek Hill, 1.630 boxes boarded; price for white, 10 13-16c.; for colored, 10%c., and at those prices all were sold. Kingston, 1,367 boxes registered; the sales were at 10%c, for white and 10 13-16c. for colored. Belleville, 2,455 white cheese offered, sales were 1,050 at 11c., and 180 at 10 15-16c. Winchester, 988 boxes registered, of which 288 were colored, and the balance white; four factories holding; white sold at 10%c, on board. Russell, 500 cheese hoarded; all sold at 10%. London, 2,015 boxes offered; 310 sold at 10 c. and 10 13-16c. Cornwall, 931 white, all sold at 10 13-16c.; 808 colored. which sold at 10 15-16c. St. Hyacinthe, Que, 1,100 boxes cheese, at 10%, and \$6.40

\$4.57 to \$7.60.

600 packages butter, at 21%c.

Ont., 10 c. Picton, Ont., 10 13-16c. and

11c. Ottawa, Ont., 10%c. and 10 13-16c.

Perth, Ont., 103c. and 10 13-16c. Kempt-

rerth, Ont., 104c. and 10 for the Rempt-ville, Ont., white, 104c.; colored, 11c. Alexandria, Ont., 104c. Stirling, Ont., 10 13-16c. and 104c. Madoc, Ont.,

Chicago.

Cattle.—Beeves, \$4.70 to \$5.25; Texas

steers, \$3.50 to \$5.50; Western steers

\$4.75 to \$6.60; stockers and feeders, \$4

to \$6.25; cows and heifers, \$2.50 to

Hogs.-Light, \$8.55 to \$8.95; mixed,

\$8.25 to \$8.80; heavy, \$7.90 to \$8.70;

rough, \$7.90 to \$8.20; good to choice

heavy, \$8.20 to \$8.70; pigs, \$8.55 to

Sheep and Lambs.-Market strong; na-

tive shippers, \$2.75 to \$4.50; Western.

\$2.60 to \$4.50; yearlings, \$1.50 to \$5.75; native lambs, \$4.50 to \$7.50; Western,

Buffalo.

Hogs.-Heavy, \$9.05 to \$9.10; mixed,

\$9.05 to \$9.15; Yorkers, \$9.20 to \$9.65;

pigs, \$9.65 to \$9.80; roughs, \$7.50 to

Sheep and Lambs.—Lambs, \$5.50 to

\$7.75; yearlings, \$5.75 to \$6.25; wethers.

\$4.75 to \$5.40; ewes, \$4 to \$4.60; sheep

British Cattle Markets.

Prices were well maintained, with the

exception of rough Canadians, which are

a trifle lower, full quotations being

United States steers, from 14%c, to 15%c

per pound; Canadians, from 111c. to 15c.

BOOK REVIEW.

CANADIAN WHO'S WHO.

From "The Times" Publishing House

London, Eng., comes a copy of "The

Canadian Who's Who'' (1910), a useful

250-page book of biographical reference.

that journalists and public libraries will

appreciate, edited by Fred. Cook, House

of Commons, Ottawa. It is a model in

compactness, but a future edition should

contain sketches of a few more repre-

sentative agricultural men. Such biog-

raphies are omitted as those of Dr. Wm.

Saunders, Prof. C. C. James, President

G. C. Creelman (O. A. C., Guelph); Prof

M. Cumming, of the Agricultural College.

Truro, N. S., and others; and among lit-

erary women of eminence, that of Sarah

TRADE TOPIC.

THE LUNGS OF AN ENGINE.-The

mixer on a gasoline engine, the carburetor

on an automobile, and the lungs on a

man, are equally important, and in each

instance fills the same office. That is

they supply the vital power necessary.

The human being, of course, requires more

air, and the lungs are called upon for

more active service when working than

in repose, and this supply is so automat-

ically regulated that we seldom give it a

thought. The same requirements exist

with an engine. As the load is in-

creased, means must be provided for in-

creasing quantity of fuel and air fed to

the Seager Engine Works, has hit the nail

right square on the head with the mixer

which he is using on the Olds engines

This mixer supplies the proper propor-

tions of gasoline and air to the engine

without the use of a gasoline pump, and

without employing a single moving part

once set, it remains in adjustment, and

the suction of the engine piston draws in

its charge for each working stroke, so

that the more numerous the strokes the

greater the supply. If interested in en-

gines, look up their advertisement in this

J. B. Seager, General Manager of

Jeanette Duncan (Mrs. Cote).

and ranch cattle, from 131c. to 14c.

\$9; bulk of sales, \$8.50 to \$8.70.

Cattle.-Prices unchanged.

\$7.65; dairies, \$8.75 to \$9.40.

mixed, \$3 to \$4.75.

10 15-10c. and 10 to made, 10 to 10 to bid.

NDED 1866

ran at the

to \$21 per

aiddlings be-

GOSSIP

George Johnston, of Londesboro, in Huron County, Ont., the elder of the two veteran herdsmen whose portraits appeared in the June 16th issue of "The Farmer's Advocate," died at his home, on Wednesday, July 27th, after an illness of several months, in the 85th year of his age. He was a faithful and conscientious man, who made an exceedingly creditable record as a feeder and fitter of show stock for several prominent Ontario breeders in his day, carrying off many important prizes, his first engagement in Canada being with the father of the senior editor of this paper, with whom he remained for twelve years. It were well that there were many more men like him in this country, who would make a specialty of caring for stock as a life work.

AFTER MORE CLYDESDALES.

There is every evidence of an active trade in Clydesdales this year. The West may not absorb as many as might have been expected, but the farmers of Ontario and Quebec are introducing on their farms the pure-bred mares in place of the grades, and so laying the basis for a splendid breeding industry. This is as it should be. To meet this trade, George G. Stewart, of Rosebank Farm, Howick, Que., has again sailed for Scotland, by the S.S. Cassandra, in quest of another shipment of pedigreed horses and fillies of the right sorts. He will be in Scotland until about the 20th of August. and may be addressed there, "Care of Thos. R. McLagan, Madderty, by Creiff, Scotland.

AMERICAN AYRSHIRE SPECIALS FOR THE FAIRS OF 1910.

The committee appointed at the last annual meeting, in charge of the special premiums for Ayrshires shown at the fairs for the season of 1910, have reported as follows:

They have instructed the Ayrshire Breeders' Association to offer a silver cup valued at \$25, at each of the following fairs. To be eligible to compete, the animals must be registered in the Ayrshire Record, and must stand on the books of the Association as owned by the exhibitor, who must be a member of the Ayrshire Breeders' Association.

Hartford, Conn., best female of any age Brockton, Mass., best bull of any age Syracuse, N. Y., best bull of any age. Trenton, N. J., best cow of any age. Springfield, Ill., best dairy record, test to conform to the rules of the fair.

National Dairy Show, three best cows in milk, owned by exhibitor.

Minnesota State Fair, best female of any age lowa State Fair, best bull of any age.

Wheeling, West Va., best female of any Ohio State Fair, best bull of any age. New England Fair, Worcester, Mass.

best female of any age. CENTRAL CANADA EXHIBITION AT

OTTAWA. The prize list of the Central Canada Exhibition, to be held Sept. 9th to 17th, 1910, is now ready for mailing. It is pleasing to note the steady, strong growth which this Fair shows each year Located centrally, with ample space and good accommodations, with the large thickly-settled territory of Quebec and Ontario in juxtaposition, the managers of this show are building it into one of magnificent proportions, and of greatest value. The prize list includes all the leading breeds of live stock; in the horse department it includes substantial awards for five animals in Clydesdales, three for Percherons, Belgians and Canadiennes, and four for the other draft breeds. For cattle likewise the awards run out to the third, fourth and fifth place, depending upon the importance of the breeds. There are 273 classes provided in all, covering almost every branch of industry related to the farm and home. In all there are 119 special prizes and gold medals awarded, thus materially enhancing the value of many of the first prizes The President of the Association is T C. Bate, and the Secretary, E. McMahon Their office is at 26 Sparks street, Russell House Black, Ottawa, Canada Catalogues will be sent gladly to any interested party who applies for one.

The name of H. Bollert, Cassel, Ont., is a well-known one through the Dominion of Canada wherever Holsteins are raised, and the quality, excellence and

BOLLERT'S HOLSTEINS.

breeding of his herd is as well known as its owner. Buyers and breeders may always investigate to their advantage whatever Mr. Bollert offers, and their attention is directed to his advertisement elsewhere in this issue.

SHORTHORNS AT PRIVATE SALE.

Good animals sell themselves. W. D. Robertson, of Oakville, Ont., is finding this very true. He advertised thirteen Shorthorns for private sale last week, and already seven of them have been taken. He has six equally good ones left, which he is ready to sell at reasonable prices. They are nice young steers of attractive breeding, and should give a good account of themselves. There is one two-year-old bull, two yearling bulls, two yearling heifers and one two-year-old heifer in the lot. Prospective purchasers should get in touch with Mr. Robertson

At the auction sale, on July 7th, of Shorthorns and Lincoln sheep, from the Riby herd and flock of Henry Dudding, of Lincolnshire, the ten bulls sold made an average of \$435, and the 47 head catalogued brought an average of \$230. The highest price for a bull was 315 guineas (\$1,650), for Riby Swell, purchased by Mr. Shields, for Argentina. same buyer gave 200 guineas for Allerton Nugget. The winning Lincoln shearling ram at the Royal Show at Liverpool. sold to Mr. Sidey for 240 guineas (\$1,250), and another, a commended shearling ram at Liverpool, brought 205 guineas. The 49 sheep sold made an average of \$205.

LARD SUBSTITUTE UNDER U. S. INSPECTION.

Secretary Wilson's meat inspectors will continue to inspect lard substitute, and not a pound of that article can go into interstate or foreign commerce unless it bears the mark, "U. S. Inspected and Passed." This is the gist of an opinion rendered July 25th, by Judge Fowler, who is acting as Attorney-General during the absence in Alaska of Mr. Wickersham. Judge Fowler, in his opinion, holds that lard substitute, which is a cooking compound made up of one-fifth animal fat and four-fifths cotton-seed oil, is fairly within the definition of a meatfood product, and must be inspected under

the meat inspection law. Acting Secretary of Agriculture Hays said to-day: "The opinion of the Attorney-General confirms the construction placed upon the law by Secretary Wilson. We have inspected lard substitute ever since the meat inspection law was passed. We never had any doubt about the matter, but some of the manufacturers lard substitute thought inspection of their product was not required."

THE AUTOMOBILE CRAZE.

The following, from the Financial World, on the subject of excessive buying of automobiles, show how the men of finance look upon this form of extrava-

The spectacle was witnessed recently of one of the largest and best-known automobile manufacturing companies in the country going from bank to bank in New York City and asking in vain for a loan of \$650,000 on \$750,000 real-estate mortgages as collateral. The mortgages represented property valued at \$1,000,000 or more. The would-be borrower was turned down on the ground that the craze to buy automobiles had been at the danger stage for some time, and that the banks did not care to encourage it.

"This sort of thing is going to end in trouble if it is not checked," said a wellknown banker, in discussing the automobile craze among people who cannot afford to buy cars. "The developments of the last few months have been such as to warn bankers against taking any great quantity of securities offered for loans by automobile makers. Many of them are overtaxed to an alarming extent."

Fortunately, these excesses are greater in the United States than in Canada. Reliable statistics show that 80 per cent. of the machines bought are purely for

QUESTIONS AND ANSWERS.

1st.—Questions asked by bona-fide subscribers to "The Farmer's Advocate" are answered in this department free.
2nd.—Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer.
3rd.—In Veterinary questions the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given.

not be given.
4th.—When a reply by mail is required to urgent veterinary or legal enquiries,
\$1.00 must be enclosed.

Veterinary.

PARTIAL DISLOCATION OF THE PATELLA.

Colt, three months old, has been running at pasture with its dam until recently, when I put it in a roomy box stall. There is a soft swelling just beneath the cap of the stifle joint. It is J. J. C. not lame.

Ans.—This soft tumor is called a porcellaneous deposit, and appears in cases where the patella (the small bone on the front of the joint) slips partially out and in again. This condition is frequently seen, especially in colts that have been on rough or uneven pasture. It is more frequently noticed in heavy than in light colts. A perfect recovery seldom takes place, but the animal usually makes a useful animal for slow work. All that can be done is to keep as quiet as possible, and repeatedly blister the front and inside of the stifle joint. Blister with 11 drams each of biniodide of mercury and cantharides, mixed with 2 ounces vaseline. Rub blister well in; put on a cover, or tie so that it cannot bite the parts. In 24 hours, rub well again, and in 24 hours longer, apply sweet oil. Let loose now, or remove the cover and oil every day. Repeat the blistering every month. It is not probable the lump will disappear, but the joint will become stronger.

Miscellaneous.

SELF-SUCKING COW.

Can you give a good remedy to prevent a cow from sucking herself? J. V. S.

Ans.-A simple remedy, which is said to answer the purpose, is to use a common horse halter, with either a straight or a pointed bridle bit. Swing the bit in the mouth loosely. This, it is claimed, will prevent and finally break the cow from sucking, and will not prevent her from eating grass or drinking water with convenience.

CHESS.

What is chess? Is it a degenerated wheat plant? G. F. C.

Ans.—Chess (Bromus secalinus L.), also known as cheat or wheat thief, is win ter annual, common in winter wheat. Where conditions are favorable to the wheat crop, the chess will scarcely appear, but if conditions prevent the growth of wheat, the chess will make a marked growth, almost claiming the land. For this reason, there is a common idea that wheat degenerates into chess, an idea that has many adherents, nevertheless is fallacious. Good cultivation and the use of clean seed will eradicate it.

FITS IN DOG.

1. I have a dog that takes fits; he shivers and gets helpless; in about half an hour he is all right again. Could you please tell me, through your valuable paper, the cause, and also a cure, if any? 2. I planted a lot of spruce trees three years ago; they are growing nicely. Some of them have limbs down close to the ground. I would like to know what time of the year to cut those lower limbs off close to the trunk without injuring the trees?

Ans.-1. The dog evidently is suffering from epilepsy. These fits are usually brought on in dogs from intestinal derangement, such as worms. After the attack passes off, give a purgative. Vomiting may ensue, worms being brought up. It is possible for abscesses or tumors affecting the nervous system to produce the condition, in which case treatment is more difficult.

2. Early spring is generally considered the best time for trimming spruce trees.

"Let's see, we sometimes call a man a Jenah, don't we?"

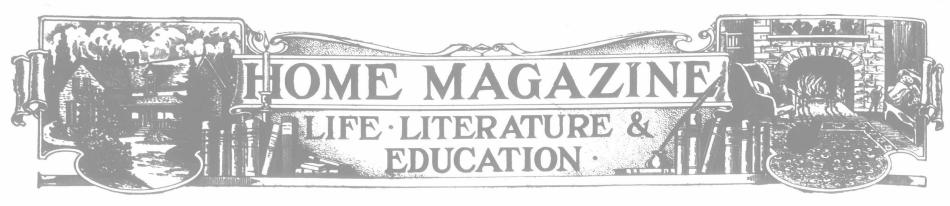
"Yes, when he brings disaster."

"That's the funny part about it. The original A mah was a prophet, while the

modern Jonah is a loss."

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in th



Some Practical Aspects readily available from the pupils' of the Teaching of Botany.

[A paper prepared by Mr. S. B. Mc-Cready, Professor of Botany, O.A.C., Guelph, for the annual meeting of the National Education Association, Boston, Mass.]

With Special Reference to the Introduction of Materials from Agriculture, Etc.

A New Viewpoint.-For this branch of science-teaching, the great requirement is a general readjustment of viewpoint. There must be a new definition for the intention and scope of the work. It must not be so much botany as plants, and not so much plants as pupils; not so much the logical development of a science as a preparation for a life. The teaching is not for the sake of a subject, but for the sake of a boy or girl who is "to live a life and make a liv-It is not a thing for to-day's recitation, to-morrow's examination, and next year's college course, but it is a thing for to-day's, to-morrow's and every day's living needs and interests. It is not an optional subject of a school programme; it is a necessary preparation for an intelligent citizenship and industrial service. It is not for a few; it is for the all. It is to bring compensation to city and town dwellers for the artificialities of urban life, and to give back to human experience something of the working knowledge of plants that the human family has worked out for itself in its progress from the primitive conditions of living to the complicated modern con-

ditions. The goal reached will not be a body of select pupils, with a scientific conception of the plant world at large, but a large body of pupils with a wide interest in the common living plants that touch them closely in their human interests. There will be a practical, and not merely a sentimental, fondness for flowers: there will be desires engendered for orking with plants to study them more, and to produce better ones. The study will not cease when the text-book is finished and the laboratory exercises are completed and recorded. The study will go on in post-graduate work, in the factory and on the farm, in the garden or the park, for the rest of the pupil's life

The Teacher and the Subject. - In this readjustment of viewpoint, the teacher must realize that plants are not in the world for botanists, for botanizing, or for school studies, but as living things, which in a very large measure affect the well-being of mankind at large in his food. his clothing, his protection, his comforts

and his pleasures With the teacher's viewpoint adjusted, the practical aspect of introducing material from agriculture, etc., is simplified. There is no scarcity of lumber yard Instead of consulting but there is no life for its own sake, the interest of botany pirst, he conthe interest of botany prst, he con . . You will find, if you travel long sults the interests of the community; in America, that you are suffering hes terple study the community; in wherica, that you are suffering hes terple study the common weeds from a kind of atrophy. You will and wood seed, examine seed grain not, at test, realize what it means for its impurities, make germination. But suddenly it will flash upon you tests and examine geranium flowers, that you are suffering from lack of a plo blossoms, and wheat heads, instead of the old time botanical special you cannot; you can only talk. It

homes or near-by gardens, he grows his own in his school plots. There in a school arboretum, and seed-beds and nursery lines for tree seedlings; there are observation plots of the different kinds of clovers and grains. The botanical garden produces cultivated and wild plants, grouped in their families, to be used for class studies.

The course will not follow textbooks so much as nature; it will accord with the season; seeds in seed time, blossoms in blossom time, fruits in harvest

The Teacher and the Agricultural College.—This new line of work does not call for new teachers. The old. experienced teachers will serve best if they can readjust themselves, and the agricultural colleges can best help them in this. It may be urged that these overemphasize the practical and economic in their plant studies. The experienced teacher will know what to select and how to adjust between the old course of study and the newer topics that insist on a place. natural conservatism will tend to slow and safe changing.

One special summer course will suffice in some cases; by two such courses for science teachers, scienceteaching in our secondary schools could be brought to bear in all branches on the needs and interests of the people. In a few years it could be revolutionized.

If the change is desirable, there is a call for closer co-operation between departments of education and the agricultural colleges.

who, when a subject is started, is willing or able to follow it out into on both sides. Mr. Dickinson has, its ramifications, to play with it, to no doubt, spoken too sweepingly. On embroider it with pathos or with wit; to penetrate to its roots. Question and answer, anecdote and jest, are the staple of American conversation; and, above all, information. They have a hunger for positive facts. And you may hear them hour after hour rehearsing to one another their travels, their business transactions, their experiences in trains, in hotels, on steamers. . . An American, broadly speaking, never detaches himself from experience. His mind is embedded in it; it moves wedged in fact. His only escape is into humor; and even his humor is but a formula of exaggeration. It implies no imagination. It does not illuminate a subject, it extinguishes it, clamping upon every topic the same grotesque mould.

For these sweeping assertions, Mr. Dickinson is taken to task by a num-"We read ber of eminent Americans. ' more than we used to," says Mr. Howells, "and I have an idea that the more we read, the less time we have for conversation. But lack of conversation doesn't necessarily imply lack of culture. Many cultured men are silent men. . . I really think that in certain circles, where educated people congregate, our conversation is quite as good as in corresponding circles anywhere else. But I do not find in conversation that the cultured people are the most interesting. Dr. Johnson was a brilliant talker, and he was a man of culture, but his talk was all one-

There is, perhaps, a little to be said the other hand, the least observant who has the opportunity of meeting with all classes of the people, or overhearing their talk. 'in hotels, on trains, in steamboats,' and elsewhere, must confess that people, as a rule, do not converse; they merely talk Happenings supply the bulk of the material for this talk; the expression of thought, of ideas, the evidence of originality, are all but absent. Wit and humor-graces that must be, like the spirit of the poet, "born, not made '-cannot, perhaps, be generally expected; but it seems a matter of regret that popular conversation should be confined so largely to "what I did," "what he did,'
"what I saw," "what happened today or yesterday." It is to be hoped that lack of evidence of thought in conversation does not presuppose paucity of thought itself.

The art of conversation, however, embraces more than expression of ideas. It includes, also, the power to make "the other fellow" talk, leading him to conversational flights which surprise, as well as please, even himself. He enjoys himself all the more, perhaps, that he does not recognize that his own expansiveness has been directly induced by the drawing power of the master conversationalist. No wonder that the latter is welcomed, where the mere talker is regarded as a bore. Life is the more pleasant because of him; mental action is stimulated. He is neither egotistic nor dogmatic (should he become so, he at once loses his right to be called a good conversationalist), and, if his attractiveness be backed by the other sterling qualities, situations and opportunities in plenty respond to his "open sesame." Moreover, he has an additional power added to him, if he will, to do good to others. Not a small proportion of great results have been due to the power of the promoters to explain. to impress, to cull views upon all questions involved, by readiness to conversation.

Conversation is an art that may in cultivated; thought first, then expression, then the tact that comes of genuine interest and respect for the opinions of others. It may be cultivated, but few there be, perhaps, who will take the trouble.



Ballymaclinton.

The Windrow.

CONVERSATION.

Mr. G. Lowes Dickinson, in Cambridge Review (Fig.), takes Americans to task for their lack of conmaterial. Instead of adhering to versational powers. "For, in Amerthe formalities of the text-book, and ica," he says, "there is, broadly following the academic lines of in speaking, no culture. There is instruction in which the colleges in struction, there is research, there is struct, he now goes to the farm or technical and professional training, the grain elevator, the garden or the there is specialism in science and ingrocery store, the orchard or the dustry there is every possible applimarket, the forest or the sawmill and cation of life to purposes and ends,

When his material is not is the rarest thing to meet a man clusions too quickly.

sided. He couldn't brook contradiction or controversy. He wanted it all his own way. And that's what kills conversation. Mr. Howells evidently overlooks the fact that the arraignment which Mr. Dickinson has made is not directed against the lack of talk, but the lack of "conversa tion in America. There is a dif-

ference between the two. Dr. Henry Van Dyke laughs at the English writer's failure to mid humor on this side—the water, and hazards that he is too serious to be Pooley. Pro. Brander Maithews: e

Our English Letter.

A TRANSPLANTED VILLAGE. I pon the occasion of my first visit to the Japan-British Exhibition, I had asked one of the messenger-boys, who, as human sign-posts, were every here and there, provided to afford information to all who might require it, how far away in the grounds was Ballymaclinton, the model Irish village which I had very especially wished to see. "Why, nearly two miles, on the other side," was in polite tones and becoming gravity, the reply, which I found out later on, in spite of my very natural suspicion that he was "poking fun" at me. was by no means an exaggeration, if the counted in the many meanderings the pictur-sque paths leading to

grets that Mr. Dickinson, during it. Title hish village yesterday, after o you did not get to our dear said Her Excellency Lady Aberof meeting with the right; softe and does, who had honored me, as an old Mr. Henry Howkerd in Factor that, I have worker in our Canadian Nahis sizing up has been some at the trend Council of Women, by a preis initation to attend with her harting of the Health Associatotal the auspices of the WoWhite City on the following day.

"After the Conference we will go

there, for not only are the proceeds

of it to be devoted to our great cru-

sade against consumption in Ireland,

but what you will see there will give

you a very clear idea of the several

industries which are being encouraged

ton was paid under the most delight-

ful auspices, not only under the wing

of the principal promoter of these in-

dustries, but in the goodly company

of others who were working with

Her Excellency as co-partners in one

or other of her many efforts on behalf

in actual operation were homespuns,

linen and damas's weaving, soap, per-

fume, rug, carpet, poplin and lace-

making, whilst curios made from Con-

nemara marble, and specimens of

decorative art in wood and china,

were being made in the Market Hall.

There were, in addition to these,

other exhibits, not actually in proc-

ess, but as clear indications of the

varied avenues opened out for an in-

telligent people who preferred to be

their own breadwinners, rather than

to be dependent upon the benefactions

of others, the best of benefactions be-

ing always that of opportunity af-

forded for self-help, which is the key-

Industries Association.

note to the grand work of the Irish

I am sending our editor a few pic-

tures of this most interesting village,

some of which, I hope, may be made

room for in our Home Magazine. I

should like you to see the "Ballyma-

clinton ' post office, where His

Majesty's mails are dealt with in the

usual routine of a postal business.

It is, as is usual in Ireland (and in

many other places, too), a general

store, where cards, books, stationery,

ironmongery, groceries, etc., are sold;

but in this particular post office a

special feature is made of Irish books

by Irish authors, printed on Irish

paper in Ireland. At the door are

gathered, on foot, on their donkeys,

or in the two-wheeled jaunting-car,

and Dan.

occasional en-

Another

the pretty "Colleens," and Dan, "the bhoy," with whom they are ex-

These Colleens are much admired by

visitors to the model village, for they

are modest and natural in manner,

as well as pretty and witty of

tongue. Their songs and dances,

which are given partly out of doors,

on the village green, and partly on a

stage which represents the interior

of a typical Irish cottage, attract a

crowd, and, let us hope, also, some

coins worth counting for the good

In one picture we have a Colleen on

her way to the bog to fetch turf; on

another a jaunting-car, in which a

good-natured driver is giving them a

shows us a group who, dressed in

garments of Irish make, while one of

them plays a merry jig, are waiting their turn to "supple their joints"

before returning to their work at

bench, loom, laundry, or model sani-

tarium, all of which are visited in

turn by the visitors to Ballymaclin-

To not think that at work or at

play there are girls only to be found

after you have passed under the im-

posing gateway which opens to wel-

come you as the guest of the village.

and which certainly looks somewhat

grim, as of course, it must, being modelled upon one "dating from the

15th or 16th century, suggestive of the iron days of the O'Neills and O'Donnels No, there are men and

lads in a lenty, or the story of she beneficent work of the Irish Indus-tries Association would only be half

THE VILLAGE FORGE.

horse.

four-1.

There

to Forge is in charge of

ksmith. Here "lucky

re made and sold, and

customers duly shod.

nodel cow-shed; a neces-

dection apparatus, with

hods for the laying of

strical appliances, all

stream of fun and blarney.

tertainments are given.

turn round the village.

Amongst the industries represented

of the people of Ireland.

OUNDED 1866

ittle to be said Dickinson has, sweepingly, On east observant ity of meeting people, or overin hotels, on and elsewhere, ple, as a rule, y merely talk e bulk of the the expression he evidence of t absent. Wit t must be, like " born, not ps, be generaleems a matter r conversation so largely to hat he did, t happened tois to be hoped of thought in

ot presupp**os**e

eif. tion, however, expression of lso, the power fellow ' talk, sational flights as please, even imself all the he does not expansiveness ed by the drawster conversathat the latter ne mere talker Life is the of him; mental He is neither (should he be ses his right to versationalist), ess be backed ualities, situas in plenty reesame." Moreditional power ll. to do good nall proportion een due to the rs to explain. ews upon all involved, by

t that may 🎉 irst, then exthat comes of spect for the may be cultiperhaps, who

Letter.

VILLAGE. my first visit Exhibition, I nessenger-boys, sts, were every d to afford inmight require e grounds was del Irish vilery especially , nearly two " was in pog gravity, the it later on, in ural suspicion fun'' at me. xaggeration, if v meanderings hs leading to

t to our dear terday, after cy Lady Aberme, as an old anadian Naen, by a preend with her alth \ssociaes of the Women's Congress, to be held at the needing a man's hand and training. ner, and a hand-loom weaver, share a cottage together, while a herd of Kerry cows, a litter of pigs, several

donkeys, geese and fowls, as well as jaunting-cars, plying for hire to and from "Blarney Castle," afford occupation and regular wages for the menof its people." And thus it came so closely akin to us in Canada. I was particularly ethicle. folk of the bonnie green isle which is I was particularly struck by the

contrast in things old and new, as

shown by the fisherman's one-roomed

cabin, and the model cottage repre-

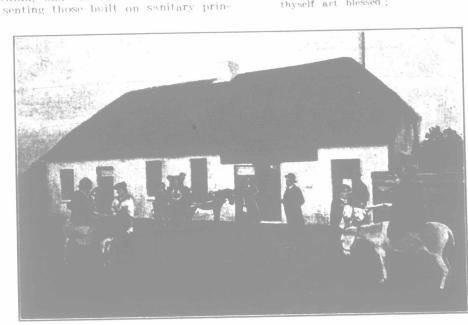
industries through the markets of H. A. B. other lands.

Hope's Quiet Hour.

That Thou Mayest Be Rich I counsel thee to buy of the gold tried

in the fire, that thou mayest be rich .-Rev. iii.: 18.

'It is not blessedness to know that thou thyself art blessed;



Village Post Office.

ciples and with every consideration for the comfort of their occupants, by the Messrs. McClintons for their employees at the soap works. In the former the family had to sleep, eat, work and live as best they could, their nets on the shelves under the thatched roof, with only the ventilation afforded by one small window and an occasionally opened door; whilst the latter provided four rooms, a pantry, and about half an acre of land, at the low rental of 2s. (i. e., 50 cents) a week.

I am promising myseli another visit changing repartees and a running to this most charming little Irish village, should I return to London before the closing of the Exhibition at the end of its season. If I do, I

True joy was never yet by one, nor yet by two possessed.

Nor to the many is it given, but only to the all;

The joy that leaves one heart unblessed, would be for mine too small."

When we look at a life impartially, we can easily see that it is rich if it has given much. Who could dare to say that a woman like Florence Nightingale, or a man like Dr. Grenfell, lived a poor life? We all want to live richly, and the opportunity lies at every door, for we all have much to give. As Mrs. Browning reminds us: "The least flower, with a brimming cup, may stand, and share its

dewdrop with another near." It is hard to realize that the "mite"



Donegal Carpet and Lace Makers.

may have a little more to tell you of a poor widow may be really "more" the teiling. I will just add, by way of a postscript, that there are over 50 schools in Ireland where teachers give instruction to the garls of the district, who are paid according to their work, over 1,000 pupils being so employed, with a remuneration, in 1906-1907, of £23,420, and this exclusive of all sales made by the pupils themselves. Again, in Donegal, between 700 and 800 girls are employed in carpetmaking, each separate thread being tied in by hand, with an almost bewildering speed and astonishing accuracy. But enough has been told to show how much is being done to provide opportunity for the development of Irish ability upon

about it, for much remains well worth than the gold and silver of rich philanthropists-not only more in proportion to her means. A gift is great or small, according to the love it carries-and we all can give love. Many years ago a friend said to me that people were given other talents in various proportions, but that he thought the "talent of loving" was given equally to all. I have before me statistics to the effect that at least a dozen women have each given at least a million dollars to help in the uplift of humanity within the last few years. But these women have done bigger things. than that. They have given sympathy and kindly interest to individuals. One of them talks in friendly fashion to sailors or radroad watchmen, another visits

Irish soil, as well as outlets for their patients in the hospital with personal gifts to cheer them. Another "meets the girl strange to the city at the station. and starts her out in safety.'

Now, we can't all give millions, but we can all do the far greater thing-give love. The millions will follow the love, if God should trust us with the stewardship of great wealth. But don't let us join the people who say, "I wish I were rich, then I could do a lot of good with the money." That is to imply that only those who have the command of great wealth can do great good. Could our Lord and His Apostles have helped the world more if they had been rich in silver and gold? I am sure it was quite the other way, and that God made no mistake when He chose, not only poor men, but men who had little education or worldly influence, to be the strong foundations of His Church. Character is so tremendous in its power and influence, that the power of wealth and education shrink in comparison. All through the ages we see that God has chosen things which are despised of men, to conquer the things which seem to be mighty-"that no flesh should glory in His presence."

Whatever may lie beyond us, The lesson this earth doth give, Is, learn how to love divinely, And then you have learned to live."

And, if we love not the brother whom we have seen, how can we love the brother we have not seen? In our eagerness to do great things for the world, let us never push aside, as of little consequence, the duties God has put into our hands. In a modern novel, a character is described as one of those who "work mechanically on fixed lines, and seem, as a rule, to miss the pith of She was kind when she rememlife." bered the people who lived with her, but her heart was "in her escritoire, with her list of Bible classes, and servants' choral unions, and the long roll of contributors to the guild of work which she had started.'

We all have to be on our guard lest our own pet philanthropic work should crowd into a corner the special duty which God gives us each day. Charity "begins" at home, and yet it must overflow the limits of home, if it is like the love of God. To shut all our sympathies within our own home, is to grow hard and cold and selfish. It certainly is not a true following in the steps of Him who had compassion on the multitude-a practical compassion-which soon resulted in an orderly supplying of their needs through an organized band of helpers.

Phillips Brooks declares that any man seeking to be holy, who does not set himself in close, live contact with the life about him, stands in great danger of growing pious or punctilious, instead of

Most people in the world are working. Some are working only for pay, caring nothing for the one served, making their work just satisfactory enough to secure their own interests. When such a man passes through the gate of death he will be desperately poor. All the money he has worked so hard to gain must be left behind. Others are working to please themselves. But the glory of life is worn as a crown by those who are eager to Give because they Love. They know it is a privilege to serve. They feel that they have gained much when they have given much. Given what? What God has put into their hands to give.

A stranger once spent a few weeks in a small town, and one day he recognized in a store-clerk the usher who had looked after him each Sunday in church. Ho thanked the young man for his kind services, and was told that no one had ever before expressed a word of appreciation, though he had "ushered" in that church for years. A word of appreciation is something we can often give. Do we let a father or mother work for us for years without expressing any gratitude? Do we accept services from servants or "salesladies" as if they were machines, and cared nothing for a sign of human interest? A gentleman told me not long ago, that he had often given his seat in the street-car to a woman, but he had never yet heard one say "thank you". A lady, who has been in charge of the biggest Fresh air Mission in Boston for 25 years, told me that hardly

any of the settlement workers, or other officials who came to make arrangements with her for sending parties of children to the country, returned in the fall to thank her for doing her best for the children's holiday. They paid the necessary money and that was all. Our Lord felt the behaviour of the nine lepers who forgot to thank Him for their healing to be a very great sin of omission.

There is a "Crutch and Kindness League" in England. Each member has a crippled child to show interest in, and is expected to write to this child at least once a month. Think how many lives are brightened and strengthened by the members of this Society. It is stated that there are over 9,000 cripples among the children of London. "Give, and it shall be given to you," says our Master, "good measure, pressed down, and shaken together, and running over, shall men give into your bosom." Those who minister to God's poor and sick, receive riches and health in overflowing measure. God's crippled children may exert mighty and trustful patience.

"Upon a crutch—her girlish face Alight with love and tender grace-Laughing, she limps from place to place, ground.

Upon a crutch. And you and I who journey through A rose-leaf world of dawn and dew. We cry to Heaven overmuch. We rail and frown at fate, while she And many more in agony Are brave and patient, strong and true, Upon a crutch."

Those lines were written by Robert Loveman. His name is inspiring, as well as his words. God's riches are free, and yet our Lord counsels us to "buy" from Him that we may be rich. The pearl of great price is a gift, and yet the man who found it "sold all that he had" in order to "buy" it. We must scatter the grain broadcast to gain a bountiful harvest. We must give ourselves, with all that we have, to God's service before He can give us gold that will stand the fire. "He that grasps loses," say the Chinese DORA FARNCOMB.

The Danger of Excess.

Things can be carried to an extreme. The athletically-built pastor of a prosperous congregation in a summer - resort town besides being extremely bald, wore a beard too much of the "bygosh" style, and carried the marks of the caresses of worry and middle age in his increasing wrinkles. Some of his most ardent admirers persuaded him to abandon the beard, which had a wonderful rejuvenating effect upon his appearance, but made his baldness the more incongruous, so that he listened to the wileful women, who argued with him regarding the beauty and naturalness of wigs. The adoption of a handsome brown one, alevident. These the tonsorial artist delightfully massaged into oblivion, and the pastor strutted forth as handsome and as youthful as when he entered college. But, alas, for the process of rejuvenation! The next August he took cholera infantum and died.

The Ingle Nook.

[Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and ad-dress with communications. If pen-name is also given, the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in stamped envelope ready to be sent on. (4) Allow one month, in this department, for answers to questions to appear.]

The following is one of the gardening articles held over from last spring. It which may be made in August. (2) Be-



These roof-windows are more picturesque than the oldstyle "pediment," but the roof slope must suit.

the plants ready for use so much the own judgment as to the methods she will influence for good by their cheery courage earlier. Fall plowing also lessens the adopt. Another method used by some number of both weed and insect pests, the latter by breaking up and exposing numerous pupæ which may be in the

My Vegetable Garden.

A vegetable garden is an absolute necessity, as it supplies the family table the year round with a variety of fresh vegetables, which are valuable for their refreshing qualities, the medicinal value they possess, the salts they yield, and the variety they give to our diet.

As every family will have speciallypreferred vegetables, so individual taste will have to decide the different kinds and the space allotted for each variety.

In choosing a site, a south or southeast location is desirable, sheltered from winds and exposed to the sun. Have well-rotted manure scattered over the surface before plowing or spading. Spade and respade, and rake or plow and harrow over and over again until the fine manure and the fine soil are thoroughly mixed. Thorough preparation of the soil is half the battle. Have your land well drained, so that water will not stand about roots and rot them. Land should never be plowed or dug when it is too wet or it will bake and crust all summer. It is preferable that the ground be plowed in the fall. This renders the soil deep and mellow and easily worked up, and little energy is required in preparing the garden in the spring.

Purchase your seeds early from a reli-Send for their catalogue and make a judicious selection. It is wise most made a young man of him once to follow the directions on the packages eggplant and celery may be transplanted more—if only the crow's-feet were not so or in the catalogue; of course using one's own judgment as to soil and local con-

If possible have a hotbed. If that is out of the question, a good substitute is vide some protection until the plants found in sowing seeds in pots or boxes in the house. When transplanted from the seed pot or box, put them in a 'make-shift" cold frame, which is a box et on the ground covered with a window sash. The glass may be lifted or removed in the heat of the day and covered at night. Excessive heat on the glass from the sun will burn the leaves of the plants. Then transplant in the garden. Or if labor and time is consideration, tomatoes, cauliflowers. cabbages, peppers and celery plants of fruit when it comes. To promote ready for transplanting in the garden can be purchased at a reasonable cost. Spinach, lettuce and onions may be had for early spring use by sowing seed in the fall, or sow in August. In that case the plants are sometimes protected through the winter by a thick covering of straw. Onion sets planted the previous autumn will be ready for use March, if the season is early. By the cause fall is really the time when a time, and unless one has plenty of time the fall give it a covering of manufe last method one saves much labor and xenerable garden should be started, and the conveniences, it is preferable to Every garden, whether vegetable or straining every energy to procure early

with good results is a seed-bed, which is a good substitute for a hotbed.

As soon as the weather permits and the ground is free from frost, prepare the soil for early vegetable seeds. Have your soil well pulverized. Make long lines running north and south so all may have the sun, and none will be shaded. Use a line and two stakes for marking, and with a pointed stick [Or patent marker. -Ed.] draw a shallow drill in which to scatter the seeds, following the directions on the seed packages. If you have plenty of room and a horse, make the rows at least two and one-half or three feet apart, and for the larger plants not less than four feet; but, of course, in many instances hand labor must be employed for lack of space and also the necessary conveniences. All things have to be taken into consideration when planning a garden.

As soon as the weather will permit, sow hardy vegetable seeds. One may sow beet, carrot, lettuce, onion, parsley, parsnip, salsify, radish, spinach, turnip. Sow radish, spinach and lettuce seeds every two or three weeks, so as to have a succession. A quick and rapid growth makes tender vegetables. About the middle of May sow outdoor seeds of tender vegetables, cucumbers, beans, sweet corn, peas, melons, pumpkin and squash. None of these can stand a frost. A few radish or turnip seeds planted in the hill with the melon seeds will save the leaves of the melon from the black flies. The seeds germinate before the melon, and the flies attack them in preference

Cultivation must be continual, frequent enough to destroy embryo weeds. Ten minutes' work before weeds develop will save hours of hard labor. Cultivation is not only to destroy weeds, but to

Tomatoes, cabbage, peppers, cauliflower out as soon as all danger of frost is gone-taking a dull or wet day in preference, or in the evening. Give them a copious watering, and if possible proare established. To protect cabbage from the cutworm, buy "cabbage collars," or wrap the stem loosely with stout paper, or sprinkle bran mixed with Paris green with the soil around the roots. Slug shot is often used for the cabbage worm, also the squash in its early stages of growth.

Some people nip out the two heart leaves of tomato plants. Checking top growth makes the plant branch and form a stocky bush that will hear the weight root growth in cabbage and cauliflower, cut off half the length of the outer have never tried this plan myself father. And there is another dreadful Thyme, sage and mint are indispensable to every garden, and a small bed may be kept for years with hills attention Another indispensable addition to the garden is an asparagus bed. To start ded the doctor bring the baby? Was a new bed, purchase roots two years old, at found in the stump fence or under a thus saving a year or two's time. In shubarb leaf "Now is the mother's To your old bed spade under a triberal chi'd in hir arms and lovingly tell him the description of the planned of th quantity of good manure, then consequely spring will be just so much easier and So every individual will have to use her bed, a saving of from two to three years their business to know what good or evil

is made by planting the roots. In the fall give a liberal dressing of manure We have had for years both rhubarb and asparagus beds, and the supply is as great for quality and quantity as it was years ago, and they have never been ren yed by new roots.

It snips, salsify and horse-radish may

be taken up in the fall or left in the ground all winter. Carrots, turnips, beets and onions can be successfully stored in the cellar. They may be covered with sand or earth, or left uncovered. Ventilate the cellar well, and look them over every now and then, removing any decaying matter. Pumpkin squash and cabbage can be stored for some time, so that if we choose we may have vegetables the year round.

A GARDEN LOVER. Middlesex Co., Ont.

Harmony in the Home.

A paper by Miss Nina M. Jamieson read at the convention of the Women's Institute, held at Millgrove, Ont.]

Here we have a subject which, to us, as homemakers, should be of surpassing interest. How it suggests that peace and contentment, that love and cheerfulness, to be found nowhere outside of a true home. Surely if we are able to establish a home where harmony dwells, we need not think enviously of the woman with a career, of the great singer or actress on the stage, of the woman of wealth and title; for our little lullaby sounds very sweet to the baby at slumber time, and the proud name of "mother" has no superior among the titles of the earth.

You have been told again and again that home is woman's kingdom. So it is. Then let us, like sovereigns, consult together as to the best methods of ruling our kingdoms, and of administering justice and maintaining peace. It is no simple task. It will require tact, common sense, courtesy, firmness, candor, and above all and through all, limitless, dauntless patience.

You will observe that I have said not one word about tidiness, economy, good cooking, careful washing and ironing, thorough sweeping-oh no. These are attributes of the housewife, and important as it may be to be an excellent housewife, it is far, far more to be a true homemaker. You know there are some homes where you can go in and sit down and be at home at any time. Home! We might make it mean so much more than it does. When a bright light is brought into a jeweller's store, how the gems sparkle and glitter, sending back a thousand flashes of brilliance! How the gold gleams and glows! Even the dull ink hottle reflects a sombre light. So should a woman in the home bring the best that is to be found in others, even in the dullest and least congenial of them all.

For it is our task to blend the dissimilar characteristics and dispositions in our family circle until it is a true

Now, I do think that of all places in the world the home is the place for The ones courtesy and consideration. we love best are the ones to whom we should be most kind. Our manner at home shows whether we accept the Golden Rule as our guide, and the behavior of our children, indicates the example we set for them. Grapes don't grow on thorn trees. If we wish our children to be mannerly and truthful, we must set the example ourselves. Truthful. I say, for in many homes the fine art of deceit is taught systematically, although perhaps unintentionally. "Tell him you don't know," a child is advised, when the child does know. "Now don't tell your father," and the child leaves with a pair of sharp scissors. I and mother are partners in deceiving the way in which the child is deceived. He omes to the mother with some query, perhaps, about the baby which has arlaved at the neighbor's house. "Mother, go" en opportunity. Let her take her

roots. In the sing of manure, oth rhubarb and supply is as quantity as it have never been

orse-radish may or left in the arrots, turnips, be successfully. They may be rth, or left uncellar well, and we and then, retter. Pumpkin, be stored for choose we may round.

e Home.

a M. Jamieson, of the Women's eve, Ont.]

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The ones on. s to whom we ur manner at e accept the e, and the bedicates the ex-Grapes don't we wish our nd truthful, we rselves. Truthhomes the fine systematically, tionally. "Tell child is ads know. "Now and the child n deceiving the nother dreadful deceived. He h some query, which has arouse. "Mother,

h some query, which has arbuse. "Mother, baby? Was ce or under a the mother's her take her fingly tell him He has a right to know it mother. God not make it at good or evil

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SATISFACTION
QUARANTEED OR
YOUR MONEY BACK

knowledge lies behind the little faces that cluster round the table. God pity them-for some day their punishment will be greater than they can bear.

We read of the white-slave trade, and speak of it with horror. Don't you realize that the place to combat this insidious evil is in the home, and our weapons are Truth and Purity? If men were pure and self-controlled, if girls were aware of their power and of their weakness, and knew how terrible a thing it is to rouse the wild beast that slumbers in almost every man, don't you think things would be a little different? And the home is the best place to teach that self-knowledge, self-reverence, selfcontrol which lead life to sovereign power. It is not to be n glected. Your child may go from you in the morning pure-souled and clean, and come home at night contaminated by the evil words of some playmate-perhaps a child of highly-respected people. Then something will be lost which will be well-nigh impossible to regain-a child's confidence in his mother. I speak at some length on this point, for I feel that it is of vital importance to the harmony of the home. which is based on mutual confidence and

Now, when we realize the difficulty of maintaining harmony in our own homes, let us have regard to the sanctity of our neighbor's home. There is often a great temptation to gossip a little-to pass on the little story that someone told us—to hazard a theory that may grow into an opinion and finally become an accepted statement of fact. People sometimes say, "You might as well say it as think But no. Your thoughts are your own-the spoken word cannot be re-

Let us turn now to the subject of allowances. In spite of the airing which this subject has received of late, the fact remains that few women have a certain stated sum of money to spend as they wish. Perhaps it is because men seldom read the woman's page in magazine or daily paper. Perhaps it is because they do not consider a woman capable of handling money, although strangely enough, they generally insist that she shall take charge of the children (showing the relative importance attached to each). But I think the trouble lies mostly with the women, for we generally get what we want if we only go about it in the right way and keep at it long enough. On the farm it is hard to fix a certain sum, but when we have the dispo-al of the butter and eggs it amounts to practically the same thing. I cannot imagine a truly happy home where the man carries every cent away down in his pocket, even when he goes out to plow. It isn't that women want the money particularly. They simply want to be trusted. Temper has a lot to do with domestic infelicity-the interference of relatives does a lot of harm here as elsewhere, hes at the root of

Now, in conclusion, just a word about the children. I do not pretend to be an authority on this, except by the oldmaid method of watching other people's mistakes. Do you know that this has been called the age of obedient parents? Did you ever refuse your child anything and then allow yourself to be wheelled into a consent? I do not say that α parent should be adamant, for I think and explanations, but pouts, tears salks, are generally means to an end, and should be suppressed, firmly and "yes" or "no," and teach him to have confidence in your judgment. When he goes to school, his first lesson is obedience to the teacher, when he goes into place as a citizen of the country if i habit is in the home to the material search quart of flour, another scant quart of them, and a construction of them, another scant quart of flour, another scant quart of them, and a construction of

Our Scrap Bag.

A stationary ironing board is a great convenience. Fasten the broad end to the wall with three stout hinges at the right height for an ironing table, and near a window. At about two-thirds of the distance to the other end of the board is a stout leg, attached with a hinge. When not in use the board folds up against the wall, the leg falls down the length of the board, and the whole is secured by a large button on the edge of the window casing.

A writer in a popular household magazine tells of a "legless" kitchen. All the furniture either sits squarely on the floor, without legs, or is built in or fixed to the wall with brackets. The room is easy to sweep and easy to keep clean. Bacon can be most thinly sliced by using a hot knife.

To Clean a Food Chopper.—Take a piece of raw potato and put through the chopper after using. The chopper may now be washed very easily.

To Launder Prints, Ginghams and Muslins.-Make a gallon of flour starch, straining it as usual. Pour half of it anto 2 parts soft water and wash the cottons in it until clean. Put the rest of the starch in the rinsing water. Dry in the shade and iron on the wrong side. It is said that this method will prevent fading.

To Set Color in Wash Materials.-To 1 gallon cold soft water add 1 teaspoon spirits turpentine. Wet the goods in this thoroughly, wring them dry, and hang up in the shade. When perfectly dry they may be laundered as usual. This is good for delicate pinks, blues,

When canning, see that you are provided with a new ring for every sealer. Have on hand, also, a cake of paraffine to pour over jellies and marmalades to prevent mould. If metal sealer tops have become rusted inside, coat them with paraffine. Paraffine taken from the top of fruit should never be wasted, but washed at once and saved for remelting.

A Homemade Hammock.-Make of strong canvas or duck, with a hem at each end. Through the hems run pieces of old broom handles. In each end of the wood screw strong thumb-screws, and suspend by small rope.

Rips in Kid Gloves.-Work each edge of the rip or tear with a very fine buttonhole stitch in cotton of the same shade, and draw the edges together.

A writer in Harper's says that the best portions of old sheets may be very satisfactorily colored blue or brown and made into pinafores and rompers for the children. Worn-out raincoats may be made into very good kitchen aprons.

If string beans are washed and parboiled before stringing the work is much more quickly and easily done than by the ordinary way.

Removers of Tan.-(1) Wash the face well, and apply buttermilk. Do this at frequent intervals. (2) Cleanse face as above and apply a mixture of grated horse-radish and sour milk, a tablespoonful of radish to a cup of milk. (3) Rub the cleansed face very frequently with slices of cucumber. Cucumber juice is one of the best bleaches known.

To remove peach stains from linen, put cream of tartar on the water-soaked stams and place in the sun. Afterwards

A split in a silk dress may be mended to make it wearable by pasting court plaster on the wrong side. In case of a large rent a piece of the silk or of ribhou applied with a little good mucilage

About the Bread Mixer. A writer in Boston Cooking School Magazine says flour as wetting makes the bead dry too uncluding dripping, yeast and was placing this first in the mixer with .

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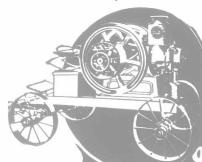
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Recipes.

Canning Young Beets.-Scrub the young beets without bruising the skin. The leaves should be cut off, but about an inch of stem left. Boil until tender enough for the table; drain and cover with cold water; push off the skin from the beets and put them into jars. Set the jars on a rack in a kettle or boiler. and add a teaspoon salt and 2 table spoons sugar to each jar. Pour in luke warm water to fill the jars; also water to come up half way to the top of the jars in the boiler. Put the covers in the water beside the Jars, cover the boiler and let boil an hour. Adjust the rubbers and covers.

Cucumber Salad.—Peel 3 medium-sized cucumbers, cut into halves lengthwise taking out the seeds. Place in cold water for an hour. When ready to serve peel 3 small tomatoes and chop coarsely Chop also 1 pint cress and mix with the tomatoes. Add a few drops onion juice a little salt and dash of Cayenne pepper Dry the cucumbers, fill with the mixture and lay on lettuce leaves. Squeeze over the filling the juice of 1 lemon and a tablespoon of olive oil, and serve a once. Ordinary salad dressing may be used instead of the oil if preferred.

Cantaloupe Dessert. - Cut cantaloupes or musk melons in two, remove seeds, and fill with ice cream, and serve.

Blackberry Cobbler.—Line a deep yellow udding dish with pastry berries, sprinkle with sugar and put on a top crust. Serve with cream and sugar An old cup inverted in the dish will keep the top pastry from falling. This hint is useful when making meat pies. Baked Berry Roll.-1 pint flour sifted with 1 heaping teaspoon baking powder and ½ teaspoon salt. Rub into this 1 tablespoon butter or lard, then cut in with a knife : cup sweet milk. Roll out a inch thick, spread thickly with herries, sprinkle with sugar, and roll. Bake hour and serve cold with cream, or hot with fruit sauce.

Fruit Sauce - Cream together 1 cup sugar and 1 tablespoon butter. Add 1 beaten egg. I cup mashed berries, and I cup boiling milk. Wet I teaspoors cornstarch in enough milk to dissolve it

A reputable citizen had left four

glanced from bon to be appropriate. said:

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6501 Girl's School Suit, & to 14 years.



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AUGUST + 1910

Away.

I cannot say, and I will not say That he is dead. He is just away !

With a cheery smale and a wave of the

He has wandered into an unknown land,

And left us draming how very fair It needs must be, since he lingers there

And you-oh, you, who the wildest yearn For the old-time step and the glad return-Think of him forms on, as dear

In the love of There as the love of Here; And loyal stil, as he gave the blows of his warrier strength to his country's

Mild and gentle, as he was brave. When the sweetest love of his life he gave

To simple things, where the violets grew Pure as the eyes they were likened to, The touches of his hands have strayed As reverently as his lips have prayed; When the little brown thrush that harshly

Was dear to him as the mocking-bird; And he pitied as much as a man in pain A writhing honey-bee wet with rain. Think of him still as the same, I say; He is not dead—he is just—away

_James Whitcomb Riley.

Summer Tramping Song.

We fare us forth at dawn of day, We foot the road together, The long road, the brown road, In sunny summer weather-Oh, who has kinder fate than we. Who tread the road down to the sea

And blue the blue flags growing. The tall flags, the kind flags, That sway in the wind's blowing Think you the marshes are not gay To gladden us tramping to day?

The grey bird flits by the grey fence, Little grey bird and ditty; The sweet bird, the kind bird, To lure us from the city

We thank thee, little blue bird there To sing to us as forth we fare. The air is sweet and clean at morn And sweet the misty sea there. The grey sea, the wide sea,

Glimps d gleaming past the tree there. Oh, we are tramps of happy part. The calling sea breath our one chart

Then who would not come join with us, Fall in with no regretting? On our road, the brown road, There's never any fretting-

And blithe and free of heart are we -Arthur L. Phelps

The Gentling of Red McWha.

It was heavy sledding on the Upper Ottanoonsis trail.

The two lumbermen were nearing the close of the third day of the hard four days' haul, in from the settlements to the camp. At the head of the first team, his broad jaw set and his small gray eyes angry with fatigue, trudged the big figure of Red McWha. With his fiery red head and his large red face, he was the only one of his coloring in a large family so dark that they were known as the 'Black McWhas," and his temper seemed to have been chronically soured by the singularity of his type. He was a good woodsman, however, and a good teamster, and his horses followed confidently at his heels like dogs. The second team was led by a tall, gaunt-jawed, one-eyed lumberman named Jim Johnson, invariably known as "Walley." From the fact that his blind eye was of a peculiar blankness, like whitish porcelain, he had been nick-named "Wall-Eye," but owing to his general popularity, combined with the emphasize views he held on that particular subject, the name had been miti-

gated to Walley. The two were hauling in supplies for Conrox . Camp. on Little Ottanoonsis Lake ently; but for the clank and harness, and the soft thut,

ression toiled on through the soundless Godding's solitary cabin on the edge of moveless shape in the bunk. Burnt Brook Meadows.

But there was no light in the window. No homely pungency of wood-smoke cabin looked startlingly deserted.

"Whoa " commanded McWha sharply. and glanced around at Johnson with an angry misgiving in his eyes. The teams

the faint sound of a child's voice, crying

growled McWha

As he spoke, Walley Johnson sprang past him, and went loping down the hill. Red McWha followed very deliberately with the teams. He resented anything

When he reached the cabin door the ound of weeping had stopped. Inside he found Walley Johnson on his knees before the stove, hurriedly lighting a fire. Wrapped in his coat, and clutching his arm as if afraid he might leave her, stood a tiny, flaxen-haired child, perhaps five years old. The cabin was cold, almost as cold as the snapping night outside. Along the middle of the floor, with bedclothes from the bunk heaped awkwardly upon it in the little one's efforts to warm it back to responsive life, sprawled rigidly the lank body of Joe Gedding.

Red McWha stared for a moment in silence, then stooped, examined the dead man's face, and felt his breast.

'Deader'n a herring!" he muttered. Johnson made no reply till the flame caught the kindling and rushed in from the open draft with a cordial roar. Then he stood up.

'He's been dead these hours and hours!" he said. "An' the fire out! an' the kid most froze! A sick man like he was, to've kept the kid alone here with him that-a-way !" And he glanced down at the dead figure with severe reproba-

Never was much good, that Joe Godding!" muttered McWha, always critical. As the two woodsmen discussed the situation, the child, a delicate-featured, blue-eyed girl, was gazing up from under her mop of bright hair, first at one, then at the other. Walley Johnson was the one who had come in answer to her long wailing, who had hugged her close, and wrapped her up, and crooned over her in his pity, and driven away the terrors. But she did not like to look at him, though his gaunt, sallow face was strong and kind.

People are apt to talk easy generalities about the intuition of children! As a matter of fact, the little ones are not above judging quite as superficially and falsely as their elders. The child looked at her protector's sightless eye, then turned away and sidled over to McWha, with one hand coaxingly outstretched. McWha's mouth twisted sourly. Without appearing to see the tiny hand he deftly evaded it. Stooping over the dead man, he picked him up, straightened him out decently on his bunk, and covered him away from sight with the blankets.

"Ye needn't be so crusty to the kid, when she wants to make up to ye! protested Walley, as the little one turned back to him with a puzzled look in her tearful blue eves.

"It's all alike they be, six, or sixteen, or sixty-six!" remarked McWha sarcastically, stepping to the door. don't want none of 'em! Ye kin look out for 'er! I'm for the horses.'

"Pon't talk out so loud!" admon-ished the little one. "You'll wake dad-" You'll wake daddy. Poor daddy's sick!"

'Poor lamb!" murmured Johnson, folding her to his great breast with a pang of pity. "No, we won't wake daddy. Now, tell me, what's yer name?"

"Daddy called me Rosy-Lilly!" answered the child, playing with a button on Johnson's vest. "Is he gettin' warmer now? He was so cold, an' he wouldn't speak to Rosy-Lilly !"

"Rosy-Lilly it be!" agreed Johnson. "Now, we jest won't bother daddy, him bein' so sick! You an' me'll git sup-

The cabin was warm now, and on tiptoe Johnson and Rosy-Lilly went about their work, setting the table, "bilin" the tea, and frying the bacon. When

Red McWha came in from the barn, and desolation. Presently the teams rounded stamped the snow from his feet, Rosya turn of the trail, and began to descend. Lilly said "Hush!" laid her finger on the steep slope which led down to Joe her lips and glanced meaningly at the

"We mus' let 'im sleep, Rosy-Lilly says!" decreed Johnson, with an emphasis which penetrated McWha's unsympathetic consciousness, and elicited a non-committal grunt.

When supper was ready, Rosy-Lilly hung around McWha for a minute or two before dragging her chair up to the table. She evidently purposed paying him the compliment of sitting close beside him and letting him cut her bacon for her. But finding that he would not even glance at her, she took her place beside Johnson. When the meal was over and the dishes had been washed up, she let Johnson put her to bed in her little bunk behind the stove. She wanted to kiss her father good-night, as usual; but when Johnson insisted that to do so might wake him up, and be bad for him, she yielded tearfully, and they heard her sobbing herself to sleep.

For nearly an hour the two men smoked in silence, their steaming feet under the stove, their backs turned toward the long, unstirring shape in the big bunk. At last Johnson stood up and shook himself.

"Well!" he drawled, "I s'pose we mus' be doin' the best we kin fer poor old Joe. We can't leave him here in the house !"

"No, we can't," answered McWha. 'He'd ha'nt it, an' us too, ever after, like as not! We got to give 'im lumberman's shift, till the boss kin send an' take 'im back to the settlement for the parson to do 'im up right an' proper."

So they buried poor Joe Godding deep in the snow under the big elm behind the cabin; and piled a monument of cordwood above him, so that the foxes and wild cats could not disturb his lonely sleep; and surmounted the pile with a rude cross to signify its character. with lighter hearts, they went back to to her. She wanted him to pick her up the cabin fire, which seemed to burn more and set her on his knee, and whittle freely now that the grim presence of its former master had been removed.

" Now, what's to be done with the kid -with Rosy-Lilly? They do say in the kith nor kin in the world, savin' an' exceptin' only the kid," began Johnson.

do nawthin' but take her on to the camp, now! Mebbe the boss'll let the hands keep her, to kinder chipper up the camp when things gits dull. I reckon when the boys sees her sweet face they'll all be wantin' to be guardeens to her !"

McWha spat accurately into the crack of the grate. "I ain't got no fancy for young 'uns in camp, but ye kin do ez ye like, Walley Johnson," he answered grudgingly. "Only I stood, right now, I ain't no guardeen an' won't be to nawthin' that walks in petticoats!"

"We'll tell the kid," Johnson went on, "as how her daddy had to be took away in the night because he was so sick, an' couldn't speak to nobody, an' we was goin' to take keer o' her till he gits back !-an' that's the truth !" he added. with a sudden passion of tenderness and pity in his tone.

At this hint of emotion McWha laughed sarcastically. Then knocking out his pipe he proceeded to fill the stove for the night, and spread his blanket on the floor beside it. "If ye want to make the camp a baby farm," he growled, "don't mind me!"

CHAPTER II.

Conroy's Camp fell under the dominion of Rosy-Lilly at sight, capitulating to the first appeal of her tearful blue eyes. Dave Logan, the boss, happened to know just how utterly alone the death of her father had left the child; and he was the first to propose that the camp should adopt her. Then Jimmy Brackett, the cook, on whom would necessarily devolve the chief care of this new member of his family, jumped to the proposal of the boss with enthusiastic support.

"We'll every mother's son o' us be guardeen to her!" he declared. Every man in camp assented noisily, saving only Red McWha. He, as was expected of him, sat back and grinned.

From the first, Rosy-Lilly made herself at home in the camp. For a few days

she fretted after her father, but Jimmy Brackett was ever on hand to divert her mind with astounding fairy-tales, during the hours when the rest of the hands were away chopping and hauling. Happily, a baby's sorrow is shorter than its remembrance, and Rosy-Lilly soon learned to repeat her phrase- 'Poor daddy had to go 'way off,' " without the quivering lip and wistful look which made the big woodsmen's hearts tighten so painfully beneath their homespun shirts.

Conroy's Camp was a spacious, oblong cabin of "chinked" logs, with a big stove in the middle. The bunks were arranged in a double tier along one wall, and a plank table, rude but massive, along the other. At the inner end of the main room a corner was boarded off to make a tiny bedroom, no bigger than a closef. This was the boss's private apartment. It contained two narrow bunks, one for the boss himself, and one for the devoted missionary priest, who on his snowshoes was wont to make the round of the widely-scattered camps once or twice in a winter. This guest-bunk the boss at once allotted to Rosy-Lilly, but on the strict condition that Johnson should continue to superintend Rosy-Lilly's nightly toilet.

Rosy-Lilly had not been in the camp a week before McWha's "ugliness" to her had aroused even the boss's resentment, and the boss was a just man. Of course, it was generally recognized that McWha was not bound, by any known law or obligation, to take any notice of the child, still less to "make a fuss over her" with the rest of the camp. There was absolutely nothing to be done about it, for Red McWha was utterly within his rights.

The adulation of the rest of the camp, poured out at her tiny feet, Rosy-Lilly took graciously enough, but rather as a matter of course. It was all her due. But what she wanted was that the big, ugly, red-headed man, with the cross gray eyes and loud voice, should be nice wonderful wooden dogs and dolls and boats and boxes for her with his jackknife, as Walley Johnson and the others did. With Walley she would hardly consettlements as how Joe Godding hain't descend to coquet. She merely consented to make him useful, much as she might a convenient and altogether doting but uninteresting grandmother. To all the McWha nodded indifferently.

"Well," went on Johnson, "we can't other members of the camp—except the boss, whom she regarded with some awe -she would make baby love impartially and carelessly. But it was Red McWha whose notice she craved.

The evening meal, "supper," in Conroy's Camp was the time of relaxation, with only pipe and bunk to come after. As the rough banter bounded boisterously this way and that above the heaped tin plates and steaming tin cups, Rosy-"Only I want it under- Lilly's big blue eyes would roam gravely another as understand what it was all about. But at last her eyes would come always to the face of Red McWha, and rest there in wistful admiration.

> When supper was over, and pipes filled and lighted, someone would strike up a "chantey,"-one of those interminable, monotonous ballad-songs which are peculiar to the lumber camps.

These chanteys are always sung in a plaintive minor; some are sentimental or religious to the last degree, while others are amazingly vulgar. But from the hour of Rosy-Lilly's arrival in camp, all the vulgar chanteys were dropped, without a word said by anyone, from the woodsmen's repertoire.

During the songs, the smoking, and the lazy fun, Rosy-Lilly would slip from one big woodsman to another, an inconspicuous little figure in the smoke-gloomed light of the oil lamps. Man after man would snatch her up to his knee, lay by his pipe, twist her silky yellow curls about his great blunt fingers, and whisper wood-folk tales or baby nonsense into her pink little ear. She would listen solemnly for a minute or two, then wriggle down and move on to another of her admirers. But before long she would be standing by the bench on which sat Red McWha with one big knee usually hooked high above the other, and his broad back reclined against the edge of a bunk. For a few moments the child would stand there smiling with a perennial confidence, waiting to be noticed. Then she would come closer and look up coaxingly into his face. If McWha were not engrossed



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when you buy flour just because it costs less than "ROYAL



"Ain't he ugly," murmured "Bird" Pidgeon to Walley Johnson, spitting indignantly on the stove-leg. · He'd 'a' cuffed the kid of he dast, he glared at her that ugly!

"Like to see 'im try it!" responded Johnson through his teeth.

After this for some days the pathetic little comedy halted. McWha would climb into the safe retreat of his bunk right after supper, and smoke there beyond danger of surprise or escalade. And Rosy-Lilly, for the moment, appeared to have dismissed him from her thoughts. Only the single piercing eye of Walley Johnson noted that she allowed herself, now and then, a swift but wistful glance toward McWha's bunk, where his big form lounged in a gloom of smoke.

The time soon came, however, when McWha resumed his old seat on the bench. Rosy-Lilly avoided him for two evenings, but on the third the old fascination got the better of her pique. McWha saw her coming, and, growing self-conscious, he hurriedly started up a song with the full strength of his big voice. The song was a well-known one, and nothing in it to redden the ear of a maid, but it was profane. Had it been any one but Mc-Wha who started it, nothing would have been said; but as it was. Walley Johnson took alarm on the instant. To his supersensitive watchfulness McWha was singing that song "jest a purpose to be ugly to the kid." The fact that "the The fact that "the kid" would hardly understand a word of it did not occur to him. Rising up from his bench behind the stove he shouted across the smoky room-"You shet up that, Red "

The song stopped. Every one looked inquiringly at Johnson. For several moments there was silence, broken only by an uneasy shuffling of feet. Then McWha got up slowly, his eyebrows bristling, his angry eyes little pin-points. First he addressed himself to Johnson.

"What business is't o' yourn, what I sing?" he demanded, opening and shutting his big fingers.

"I'll show ye what—" began Johnson in a tense voice. But the boss interrupted. Dave Logan was a quiet man, but he ruled his camp. Moreover. he was a just man, and Johnson had begun the dispute.

"Chuck that, Walley!" he snapped, sharp as a whip "If there's to be any row in this here camp. I'll make it myself, an' don't none o' you hoys forget

McWha turned upon him in angry ap-

you sez goes, fer's I'm concerned." said camp a camp, er a camp-meetin ? Ei you sez we ain't to sing nawthin' but hymns, why, o' course, it's hymns fer me till I kin git away to a camp where the

T kin make allowances for yer gittin' riled, considerin' the jolt Walley's rude interruption give ye! He hadn't no right to interrupt nor no call to. This ain't expected to go a tiptoe and talk prunes haired kid what's come to brighten up this no low-down talk! That's all.

Whit alone so markedly that it looked as a Walker Johnson or Jamus Brackett

honor fell, as a matter of course, to Jimmy Brackett. Rosy-Lilly went with him willingly enough, but not till after a moment of hesitation, in which her eyes wandered involuntarily to the broad red face of McWha behind its cloud of smoke.

As a nurse-maid, Jimmy Brackett flattered himself that he was a success, till the moment came when Rosy-Lilly was to be tucked into her bunk. Then she stood and eyed him with solemn question, "What's wrong, me Honey - bug?" asked Brackett anxiously.

"You hain't heard me my prayers!" replied Rosy-Lilly, with a touch of severity in her voice.
"Eh? What's that?" stammered

Brackett, startled quite out of his wonted composure. "Don't you know little girls has to

say their prayers afore they goes to bede she demanded. "No!" admitted Brackett truthfully. wondering how he was going to get out

of the unexpected situation. "Walley Johnson hears me mine!" continued the child, her eyes very wide open as she weighed Brackett's qualifications in her merciless little balance

Here Brackett was misguided enough to grin, bethinking him that now he the laugh" on the boss and Walley, That grin settled it.

"I dess you don't know how to hear me say 'em, Jimmy'' she announced inexorably. And picking up the skirt of her blue homespun "nightie." so that she showed her little red woollen socks and white deer-hide moccasins, she tripped forth into the big, noisy room

At the bright picture she made, her flax-gold hair tied in a knob on top of her head, that it might not get tangled, the room fell silent instantly, and every eye was turned upon her. Unabashed by the scrutiny, she made her way sedately down the room and across to McWha's bench. Unable to ignore her, and angry at the consciousness that he was embarrassed, McWha eyed her with a grim stare. But Rosy-Lilly put out her hands to him confidingly

"I'm goin' to let you hear me my prayers," she said, her clear, baby voice carrying every syllable to the furthest corner of the room

An ugly light flamed into McWha's eyes, and he sprang to his feet, brushing the child rudely aside.

"That's some o' Jimmy Brackett's work!" he shouted. "It's him put 'er up to it!" The whole room burst into a roar of laughter at the sight of his wrath. Snatching his cap from its peg he strode furiously out to the stable

One day, however, Fate concluded to range herself on Rosy-Lilly's side. A the impact of a falling tree, struck Red McWha on the head, and he was carried home to the cabin unconscious, bleeding from a long gash in the scalp. The boss something of a surgeon in his rough-andready way, as bosses need to be, washed the wound and sewed it up. Then he handed over his own bunk to the wounded man, declaring optimistically that Me-Wha would come round all right.

It was hours later when McWha began to recover consciousness, and just then, as it happened, there was no one near but Rosy-Lilly. Smitten with pity. the child was standing beside the bunk. and simily shaking her head and lightly ing the log, lump hand where it lay ele the blanket. McWha hall opened ver and their faint glance fell on the of Resy-Lilly's head as it bent Lord With a wrz smile he cannot be the comprise he that the cannot be appeared. and felt his handaged head, and a drink of water. To his surthat it sound as if she had telling one has come so it she had telling one has come so came the color of water in he is lattle the if it the hors and the his was appeared to the of his mean characteristics.

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in song, it would soon become impossible for him to ignore her. He would suddenly look down at her with his fierce knit his shaggy red brows, and demand harshly, what d'you want?"

From this rough greeting, the loud voice and angry eye, the child would retreat in haste, and usually seek Jimmy Brackett, who would console her with some McWhi with envenomed glances

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"Ye got off mighty easy, Red," said o' the knot 'at hit ye. But you Mc-Whas was always hard to kill."

McWha's hand was drooping loosely over the edge of the bunk. He felt the child's tiny fingers brushing it again, softly and tenderly. And the sensation was so novel that he quite forgot to reply to the boss's pleasantry.

During the two days McWha was kept a prisoner he had nothing to do but smoke and whittle. He whittled diligently, but let no one see what he was making. Then, borrowing a small tin cup from the cook, he fussed over the stove with some dark, smelly decoction of tobacco juice and ink. Rosy-Lilly was consumed with curiosity, especially when she saw him apparently digging beads off an Indian tobacco-pouch which he always carried. But Jimmy Brackett did not let her go near enough to get enlightened as to this mysterious occupa-

On the following day McWha went to work again, but not till after breakfast, when the others had long departed. Rosy-Lilly, with one hand twisted in her little apron, was standing in the doorway as he passed out. She glanced up at him with a coaxing smile. McWha would not look at her, and his face was as sullenly harsh as ever; but as he passed he speechless delight it proved to be a little dark-brown wooden doll, daintily carved, and with two white beads, with black centers, cunningly set into its face for

Rosy-Lilly hugged the treasure to her run to Jimmy Brackett with it. But a subtler instinct withheld her. Somehow. from the way the gift had been bestowed. she felt it was meant to be a kind of secret. She carried it away and hid it in her bunk, where she would go and look at it from time to time throughout the day. That night she brought it forth, but with several other treasures, so that it quite escaped comment. She said nothing about it to McWha, but she played with it when he could not help seeing it. And thereafter her "niggerbaby" was always in her arms.

This compliment, however, was apparently all lost on McWha, who had again grown unconscious of her existence. And Rosy-Lilly, on her part, no longer strove to win his attention. She was content either with the victory she had won, or with the secret understanding which, perforce, now existed between them. And things went on smoothly in the camp, with every one now too occupied to do more than mind his own busi-

It * chanced this year that the spring thaws were early and unusually swift, and from every brookside "landing" the swarms. Just below Conroy's camp the d with slate ledges.

And here, now, in spite of the frantic efforts of Dave Logan and his crew, the logs suddenly began to jam. Pitching downward as if propelled by a pileends between the upstanding strata of the slate, and held against the torrent till others came and wedged them securely. midstream, where no one could get near it. In a few minutes the interlocked mass stretched from bank to bank, with the torrent spurting and spouting through it in furious milk-white jets. In a short time the river was packed solid from shore to shore for several hundred at a rate which threatened in a few hours to third the valley and sweep

nand, picked he way across the mon-strous tangle of the face of the jam be-"ween the green, white ie's till he gained the structure. Here his the men called them. with his ax. Then, rethe the task of cutting · Lese kin

breaking to his credit, from the days bethe boss cheerfully, "considerin' the heft fore he was made a boss; and now, when he called for volunteers, every unmarried man in camp responded, with the exception, of course, of Walley Johnson, whose limited vision unfitted him for such a venture. The boss chose "Bird" Pigeon and Andy White, because they were not only "smart" ax-men, but also adepts in

the rivermen's game of "running logs." With a jaunty air the two young men spat on their hands, gripped their axes, sprang out along the base of the jam and plied their heavy blades. It was heroic, the work of these two, chopping coolly out there under that colossal front of death. Their duty was nothing less than to bring the toppling brow of the jam down upon them, yet cheat fate at the last instant, if possible, by leaping to shore before the chaos quite overwhelmed

Suddenly, while the two key logs were not yet half cut through, the trained eve of the boss detected a settling near the top of the jam. His yell of warning tore through the clamor of the waters. At the instant came a vast grumbling,not loud, apparently, yet dulling all other sounds. The two choppers sprang wildly for shore, as the whole face of the jam seemed to crumble in a breath.

At this moment a scream of terror was heard, and every heart stopped. Some slipped something into her hand. To her thirty yards or so up-stream, and a dozen, perhaps, from shore, stood Rosy-Lilly on a log. While none were observing her she had gleefully clambered out over the solid mass, looking for spruce gums. But now, when the logs moved, she was so terror-stricken that breast. Her first proud impulse was to she could not even try to get ashore. She just fell down upon her log 'and clung to it screaming.

> A groan of horror went up. The awful grinding of the break-up was already under way. Walley Johnson leaped wildly out upon the nearest logs, fell head foremost, and was dragged back, fighting furiously.

Just as Johnson went down, there arose a great bellowing cry of rage and anguish; then Red McWha's big form shot ist, leaping far out upon the logs. Over the sickening upheaval he bounded this way and that, with miraculous sure-footedness. He reached the pitching log whereon Rosy-Lilly still clung. He clutched her by the frock. He tucked her under one arm like a rag-baby. Then he turned, balancing himself for an instant, and came leaping back toward

A great shout of wonder and joy went up,-to be hushed in a second as a log reared high in McWha's path and hurled him backwards. Right down into the whirl of the dreadful grist he sank. But with a strength that seemed more than human he recovered himself, climbed forth dripping, and came on again with those ogs came down in black, tumbling great unerring leaps. This time there was no shout. The men waited with dry toward which he had jumped was jerked aside just before he reached it; and turning in the air as he fell, so as to save the child, he came down across it on his side with stunning violence. As he fell, driver, certain great timbers drove their the boss, and Brackett, and two of the others, sprang out to meet him. They reached him somehow, and, covered with bruises which they did not feel, succeeded The jam began between two ledges in in dragging him, with his precious burden, up to safety. When his feet touched solid ground he sank unconscious, but with his arm so securely gripped about the child that they had difficulty in loos ing his hold.

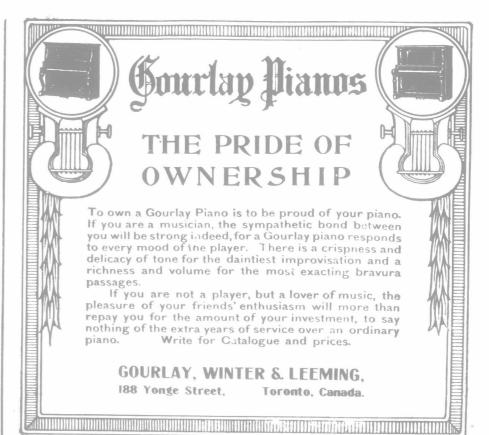
Rosy-Lilly, when they picked her up, was quivering with terror, but unharmed. yards above the brow of the jam, and . When she saw McWha stretched out upon above that again the waters were rising the bank, motionless, with his eyes shut and his white lips half open, she fought savagely to be put down. She ran and flung herself down beside her rescuer. caught his big white face between her tiny hands, and fell to k soing him. Presently McWha opened his eves and with a mighty effort ross upon one ellow. A look of embarrassopent passed over his

the task of cutting "I'm right — g'ad — vo're — sife. —
Rosy-Lilly." he sid faut's diawing her face down to his "Bo's get the does to patch me up—I've got to two for Rosy.

I his daring career.

I his daring career.

Lilly's sake !"—[By Chas O D Roberts in Delineator.







SKIMS CLOSEST.

It has become common talk that any cream separator will skim close enough.

That's all Wrong.

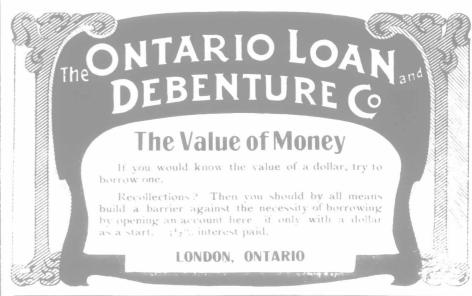
It is possible for one separator to skim enough closer than another to pay for itself in extra profits in 21/2 years with eight cows, or, in other words, the poor-skimming separator, while getting more cream than pans or cans, loses the price of itself every 21/2 years.

The "STANDARD" has reached a skimming standard, " with milk under all conditions," far above all others. The best way for you to prove this is with the machine itself. Try a "STANDARD." If it don't stand up and prove its superiority to you in results, don't buy it, that's all. for free catalogue. It explains all. Good agents wanted in unrepresented

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Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted, and Pet Stock. TERMS—Three cents per word each insertion. Cach initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. advertisement inserted for less than 50 cents

A GENTS WANTED—Smart, active ladies to take orders in country districts for our famous Made-to-order Corsets and Skirts. Good commission. Apply: Robinson Corset & Costume Co., London, Ont.

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FITHE Canadian Apple - growers' Guide (just m published).—A complete and up-to-date guide for success in apple-growing, from the planting of the tree to the sale of the fruit. By Linus Woolverton, M.A., Grimsby, Ontario. Published by Wm. Briggs, Toronto. Price \$2.25, postpaid.

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Registered Seed Wheat

Discours Golden Chaff, selected for H adms, in the rules of the Canadian Seed (specialis). Scored 98 points out of 100,

C. R. Gies, Heidelburg, Ont.

QUESTIONS AND ANSWERS. Miscellaneous.

WILD RADISH.

What variety of mustard is this?

Ans.—The mustard submitted is wild radish. It propagates from seeds, and is a coarse, vigorous grower, producing an abundance of seeds. It is very objectionable. Hand-pull, if possible; sum mer-fallow, with thorough cultivation, at short intervals. Hoed crops, with clean cultivation, followed by a fodder crop. cut green before the weed flowers, with early clover for pasture or hay the third year, and a grass crop for hay the fourth year, is a rotation that will ultimately suppress this weed.

BINDWEED.

if grain that was newly tilled. We never saw it before, and ask whether it is injurious or not? It is similar to a morning-glory, with a very small flower, and J. B. it twines up the grain.

Ans.-The weed presented is small bindweed field bindweed or wild morningglory, and is an exceedingly persistent grower. It propagates both from its seeds and its roots, any portion of which will grow when broken by the plow. A short rotation, including late-sown roots. is useful in eradication. Frequent use of a broad-sheared cultivator will destroy new growth and exhaust the vitality of the plants. Men have worked years in eradicating this weed, and you may as well make up your mind to thoroughly cultivate the infested area every five days for an entire season, and thus weaken the vitality of this weed. You will have to keep constantly fighting this weed if, as it appears from the sample received by us, it is the bindweed.

STALLION'S SERVICES.

A takes a mare to B's home for service and bred her, on the 23rd of March. stating to B that he wanted the mare to foal early or not at all. B stated his fee was \$15 if he moved his horse, but at his home it would be less. B sold his horse to C. C brings his horse to A's home and wants to try A's mare on the 7th of June. A told C that, as it was too late, he would not breed his mare at all, or not till fall. A asked C his price. C stated \$15.

1. If A's mare does not foal the spring of 1911, is A responsible to C for the fee, when nothing was stated except the

2. If A's mare is bred to another horse and foals in July or August, 1911, can C claim his fee?

3. If A's mare foals in October or November, 1911, by a different horse, can C claim his fee?

Ans.-We would answer No, to all thre

DAIRY COW RATION.

What mixture of the following foods would be most advisable to feed to milk cows, on grass? I can buy shorts \$1.20 cwt.; bran, \$1.10 cwt.; low-grade flour, \$1.60 cwt.; oil cake, \$2 cwt. Or are there other foods that would produce milk more economically? W. S. S.

Ans.—The problem of most economically, yet most advantageously, compounding a meal ration for your cows, is affected somewhat from the nature of the constituent of our animal foods; it is also the chief essential for milk cows, in the feeding of which narrow rations are used, i. c. the proportion of proteids to the non-proteids is high. In the feeds you indicate, the oil cake is the cheapest source of protein, but in itself is too rich in that matter, having a ratio of 1:1.5; it is probably best that the ratio be widefied to at least 1.4.5 for your cows. For this purpose, the low rade flour contains a slightly higher content of car-Sohydrates and fats, but costs considerwhile not containing quite as much of the non-proteid matter, contains about onehalf more proteid matter, and is cheaper The ratio of shorts alone is about 1:5 Consequently, if you would feed shorts four of the former and one of the latter,

and satisfactory meal ration, providing they are both of good quality. The addition of a little bran will lighten the ration, probably increasing its digestibility. This ration is quite narrow as here outlined. If you wish to widen it, increase the proportion of shorts, or substitute bran for part of the oil meal. This, however, will increase the cost. If you have ordinary mixed grain chop, this with a little oil cake, will answer ad-

CANADIAN EXPORTS

I would like to know the proportion wheat, oats, etc., etc., sent to England. by Canada, during recent years

STATISTICIAN

Ans. In 1909. Canada exported to Britain: Cattle, 143,661; hogs, none; live poultry, \$1.075 worth; sheep, 19,793; bacon, 70,358,985 pounds; hams, 3,268, 815 pounds; pork, 310,499 pounds; horses 174; oats, 2.558.995 bushels; wheat, 48, 891,248 hushels. For further information see Canada Year Book, or Trade and Navigation Report.

GRAFTING CHESTNUTS ON HORSE-CHESTNUTS.

I have some horse-chestnut trees, and would like to know whether it would do to graft the eating chestnuts on it. If so, where could I get the scions?

Ans.—The sweet chestnut is not closely enough related to the horse-chestnut to make grafting of one upon the other possible. Unless there is a strong affinity between stock and scion, it is useless to attempt grafting. This, of course, can be determined only by testing, but the botanical relationship is usually a fairly reliable index to such affinity. Although we have never heard of the attempt being made, we feel quite safe in saying that the sweet chestnut and horse-chestnut have too remote a relationship to pos H. L. HUTT.

GOSSIP

T. B. Macaulay, Hudson Heights, Que. importer and breeder of high class Clydesdales and Hackneys, in his advertisement in this paper, offers for sale two imported Clydesdale and two imported Hackney stallions of superior quality and

An autopsy performed on a valuable Holstein cow, which died suddenly at German Valley, N. J., reveals that the cow had swallowed a corset stay. In spite of his grief and chargrin over the loss, the late owner has dropped into poetry, and erected a tombstone over the cow's grave, with this epitaph :

This faithful cow we loved so much

A corset steel cut short her life-It was not hers to stay.

The steel was ten inches long, and pierced the cow's heart.

The census of the forest products of Canada, to be taken on 1st June, 1911, will embrace square, waney or flat timber, logs for lumber, and miscellaneous

In the first class are included ash, birch elm, maple, oak, pine, and all other timber cut as square, waney or flat, and in the enumeration will be rejorted for cubic feet and value.

Logs for lumber, which are included i the second class, are in such woods a elm, hickory, hemlock oak, pine spruce. They will be enumerated in th census by quantities of 1,000 feet board measure, with value in the same unit.

Miscellaneous products of the forest in clude bark for tanning, fence posts, fire wood, hoop and hop poles, masts and road ties, staves, stave-holts and head

The census of forest products will be



The tone, touch and magnificent wearing qualities of the New Scale Williams Piano are the logical results of the faultless materials and superb workmanship which enter into its construction.

The Harmonic Tone Prolonging Bridge—Acoustic Rim and Special Method of Ribbing - Grand Piano Scale and Construction—and many other exclusive features add musical excellence and durability to

New Scale Williams

When you buy a piano, you want the best. May we send you our richly illustrated booklets, in which we give some of the reasons why the New Scale Williams is the universal choice of discriminating musicians and artists?

We also invite your investigation of our easy payment plan, full particulars of which will be sent on request.

The Williams Piano Co. Limited, OSHAWA, Ont. BRANCH OFFICES:





remove the bunch without scarring the horse—have the part looking just as it did before the blemish came.

Fleming's Spavin Cure(Liquid) is a special remedy for soft and semi-solid blemishes — Bog Spavin, Thoroughpin, Splint, Curb, Capped Hock, etc. It is neither a liniment nor a simple blister, but a remedy unlike any other—doesn't imitate and can't be imitated. Easy to use, only a little re-quired, and your money back if it over him. Fleming's Vest-Pocket

Veterinary Adviser
describes and illustrates all kinds of blemishes and gives you the information you ought to have before ordering or buying any kind of a remedy. Malled free if you write.
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es all kinds of blem-he information you dering or buying any led free if you write.

OS., Chemists Toronto, Ontario

SALE dlions, colts, mares

pion stallion, "Baron purchased from this BEATTIE, Annan, Scotland

200% PROFIT Handy, Automotic HAME FASTENER Do away with old hamestry, Horse company and hamestry

Wayne St., Dayton, Oht N THIS PAPER.

All Horse-Collar Troubles Now Prevented or Quickly Cured

Every horse-owner who will now consider the practical in valuable time and horseflesh by using a set of HUMANE HORSE COLLARS to **prevent** all collar troubles, will certainly buy a set with his spring harness. Or get a set to cure your sore horses **while they work**. The success of the HUMANE HORSE COLLARS for the past three years proves this. Investigate. HUMANE HORSE COLLARS



It is a fact that only one set of HUMANE HORSE COLLARS on a farm will cure up and keep cured of collar troubles all your horses. Don't use "sweat pads"—it's cruel—especially in hot weather—injures your horses; and besides, the sweat pads cost you more than most collars before you get through. You don't need them with these collars. Every set comes complete with short tugs and ready to use—less trouble to put on and take off—and fit any horse perfectly all the time by simple adjustment. Built to last for years by expert workmen, and durable materials.

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Clydesdale Stallions and Mares I have still some extra good fifteen imported and registered mares. The mares have all been bred, are all up to a big size, 2 and 3 years old, and are of choice Clydesdale breeding. C. P. R. and phone connection.

T. H. Hassard, Markham, Ontario

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College Recopens September 30th, 1910 E. A. A. GRANGE. V.S., M.S., PRINCIPAL, 40-46 TEMPERANCE ST., TORONTO, ONT.

CLYDESDALES AND HACKNEYS We have still for sale several good Clydesdale Stallions; also our prizewinning Hackney stallion, Blanch Surprise, and a few good Clydesdale and Hackney mares. All of which will be sold on reasonable terms. Phone connection. will be sold on reasona JOHN A. BOAG & SON, Bayview Farm, Queensville, Ont

CLYDESDALES, imported and Canadian-bred. I have on hand 2 Imported Clydesdala Stalliana and 1 the hand 2 Imported Clydesdale Stallions, one 4, the other 5 yrs. old; 2 Canadian-bred Clydesdale Stallions, one 2, the other 3 yrs. old; one French Coach Stallion, 4 yrs. old; one Shire Stallion, and the noted Hackney Stallion, Chocolate Jr. 1 will sell these horses cheap for quick sale. T. D. Elliott, Bolton, Ont.



WAVERLY CLYDESDALES AND HACKNEYS My 1910 importation of Clydesdale stallions and fillies, and Hackney stallions and fillies, are now in my barns. One and two-year-old Clyde filies of a character and quality never before excelled. My Hackney stud was never so strong in high-class animals. All are for sale and prices right. ROBT. BEITH, BOWMANVILLE, ONT.

IMPORTED CLYDESDALES AND HACKNEYS In my stables at Ingersoll, Ont., I have always on hand Clydesdale stallions and fillies, and Hackney stallions, personally selected in Scotland for their high-class type, quality and breeding. Let me know your wants.

W. E. BUTLER, INGERSOLL, ONT. W. E. BUTLER, INGERSOLL, ONT.



IMPORTED CLYDESDALE FILLIES I have still on hand six Clydesdale fillies. They are big, smooth fillies, exceptionally well bred, and their underpinning is the kind Canadians like. I have only one stallion left, a right good one. My prices are as low as any man's in the business. 'Phone connection. GEO. G. STEWART, HOWICK, QUEBEC.



Imported Clydesdales

My new importation of Clydesdales

1910 have arrived. They were selected to comply with the Canadian standard, combining size, style, quality and faultless underpinning with Scotland's richest blood. They will be priced right, and on terms to suit. C. W. BARBER, GATINEAU PT., QUEBEC.

SMITH & RICHARDSON are in Scotland at present purchasing more Clydesdales. Watch this space for further at a suncement. Myrtle, C. P. R. Brooklin, G. T. R. Phone.









QUESTIONS AND ANSWERS. Veterinary.

CATARACT-LUMPS ON ABDOMEN.

1. Last year horse had scum over eye. I got some lotion for it and it got better. Now the eye is becoming white in the center

2. Pig has lumps the size of goose egg on its stomach.

Ans.-1. I am afraid a cataract is forming, and, if so, nothing can be done. If the white spot be near the surface, it is due to a deposit of lymph between the layers of the external coat of the eye and you may cause absorption by putting a few drops of the following lotion into the eye, twice daily, viz.: Nitrate of silver, 10 grains; distilled water, 2

2. If these are soft, lance, and allow the escape of pus, and flush the cavaties out twice daily, until healed, with a 5per-cent, solution of carbolic acid. If they are hard, leave them alone, or get your veterinarian to dissect them out

FATALITY IN COLT.

Mare foaled July 12th. On the 17th I noticed a soft swelling on right side of breast. This soon extended to left side, and down between the fore legs. Diarrhea set in, and it died on the 19th. A post-mortem revealed yellowish fluid in the abdominal cavity and parts of the peritoneum decomposed and fetid, and decomposition was present under swelling on breast.

Ans.-The colt died of inflammation of the bowels complicating diarrhea. This is evidenced by the condition of the bowels and peritoneum, accompanied by serum in the cavity. It is possible that repeated doses of opium, say 2 drams laudanum in a little of the dam's milk, every three hours, for a few doses, might have saved it, but it is doubtful if any treatment would have been successful. The swelling on the breast was erysipelas, and it is quite probable this predisposed the colt to diarrhea. Treatment for this should have been bathing with hot water and rubbing with camphorated liniment, and giving 20 grains hyposulphate of soda, three times daily. I do not think the colt could have been saved

ERUPTIVE TROUBLE IN COLT.

Colt is now six weeks old. When born, one knee was weak and swollen. In a week, both hocks became swollen and discharged matter. It bled from the navel for two or three days, then a veterinarian ligatured it, said the colt had joint ill, and left medicine for it. He got worse, and a sore broke out on his breast. The navel again broke out. We treated with hot water and the sores healed. There is now a soft lump the size of a goose egg on one stifle. The lump becomes hard when he walks. nas a good appetite, J. F. McK,

Ans.—The symptoms indicate joint ill, and you should give your veterinarian credit for saving the colt's life. Certainly, your treatment (simply hot water) cannot be credited with a cure. The lump on the stifle, or, more properly speaking, just below the stifle, is what is called a porcelaneous deposit, and appears in cases where there is partial dislocation of the patella (the stifle bone). All that can be done is to keep the colt as quiet as possible, and blister the front and inside of the joint once monthly. A mixture of 11 drams each of biniodide of mercury and cantharides, with 2 ounces vaseline, makes a good blister. It is probable the lump will remain.

Miscellaneous.

WHITE COCKLE.

Would you kindly answer, through your columns, what this weed is? A. H. A. Ans.-The specimen submitted is white cockle, a biennial, or short-lived perennial. It grows about two feet high, has white flowers, on long, branching, flowering stems; flowers in June, seeds ripen in July. Occurs in grain crops and meadows. It is persistent and difficult of eradication. A bare summer-fallow, with thorough cultivation, will suppress it, a short rotation of crops will

HORSE OWNERS! USE CAUSTIC

A safe, speedy and positive cure. The safest, Best BLISTER ever used. Removes all bunches from Merses. Impossible to produce scar or blemish. Send for circulars. Special advice free.

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The cure that saves horsemen and farmers millions of dollars every year.

It is known the world over as the one certain, reliable remedy for Spavin, Curb, Splint, Ringbone, Bony Growths and any Lameness.

Cases just developing and old, stubborn sores and yield to the wonderful curative

powers of this famous remedy. Orangeville, Ont., Dec. 21, '08 "We had a horse which was getting very lame on account of a Spavin. I was anxious about him

as we could not work the beast when we most needed him. Our teamster saw Kendall's Spavin Cure in the store and

tried it. I am pleased to say he had success as the horse has stopped limping and is doing his day's work."

W. A. NICHOLSON.

Don't worry about Spavins, Growths, Swellings or Lameness, but use Kendall's Spavin Cure. It cures every time. 'The world's best liniment for man and beast.

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BICKMORE'S GALL CURE

is guaranteed to cure while horse is under harness or saddle. The great army of dealers who sell it are authorized to return your money if it fails. Buy it and have it on your stable shelf ready for emergencies. It is the standard remedy and leading horsemen, trainers, large stable owners and veterinarians. Sample Bickmore's Gall Cure sent for 60 nostage. Address narians. Bam stage. Address

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Peachblow Clydesdales and Ayrshires!

CLYDES 2 four-year registered stal-lions, one imported. AYRSHIRES— 3 very choice bull calves, all registered. All good colors, and from good milk-ing dams. Prices right.

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Imported Clydesdales Imported and Canadian-bred Clydesdale mares and fillies and young stallions, of most fashionable breeding, up to a big size, with character and quality Phone come from ALEX, F. MCNIVEN, St. Thomas On: St. Thomas, Ont

Troubled with Heart

NERVES WERE ALL UNSTRUNG

Mrs. Oscar Hamilton, Forest Glen, N.S., writes:-"I can truthfully say that Milburn's Heart and Nerve Pills have been a great friend to me. A few years ago I was very much troubled with my heart and my nerves were all unstrung, I had terrible pains all through my body. I was weak and had frequent and eevere dizzy spells, and was continuously having to consult doctors. I had Milburn's Heart and Nerve Pills recommended to me and after having taken a box they appeared to help me so much I continued to take them, and was soon able to do my work again. For this I am very grateful and would advise all people with weak heart or unstrung nerves to give them a thorough trial."

Milburn's Heart and Nerve Pills are the original heart and nerve cure and are sold at all dealers for 50c per box, or 3 boxes for \$1.25, or will be mailed direct on receipt of price by The T. Milburn Co., Limited, Toronto, Ont.

Shoe Boils, Capped Hock, Bursitis ARE HARD TO CURE, yet ABSORBINE

will remove them and leave no blemishes. Does not blister or remove the hair. Cures any puff or swelling. Horse can be worked. \$2.00 per bottle. Book 6 E free. ABSORBINE, JR., (mankind, \$1 and \$2 per bottle. For Boils, Bruises, Old Sores, Swellings, Gottre, Varicose Veins, Varicosities, Allays Pain, Your druggist can supply and give references. Will tell you more if you write. Manufactured only by W. F. YOUNG, P. D. F. 258 Temple St., Springfield, Mass. Canadian Agents: Lymans' Ltd., Montreal. Canadian Agents: Lymans' Ltd., Montreal

MESSRS. HICKMAN & SCRUBY Court Lodge, Egerton, Kent, England.

Exporters of pedigree live stock of every description. Draft horses a specialty. During the summer months we shall export large numbers of cattle and sheep for breeding and show purposes. We attend all the leading fairs and sales, and can buy cheaper and ship cheaper than can anyone not living on this side. Correspondence invited.

ABERDEEN - ANGUS

Will sell both sexes; fair prices. Come and see them before buying. Drumbo station.

WALTER HALL, Washington, Ont.

Balmedie Polled Angus and Oxford Down sheep — Offering several exceptionally nice heifers, and a few young bulls. Discriminating buyers will be pleased with my herd. Anything in the herd will be priced. Also ram and ewe lambs. I. B. Broadfoot, Fergus P. 0 and Station. P. O. and Station.

Aberdeen-Angus Cattle Stock all ages, and both sexes, trains, at reasonable prices. Apply to ANDREW DINSMORE, "Grape Grange" Farm, Clarksburg, Ont.

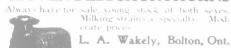
SHORTHORNS, COTSWOLDS, BERKSHIRES

50 Shorthorns on hand, including 1 yearling bull, 3 bull calves, 12 heiter calves from imp, and home-bred cows, 7 yearling heiters, 7 two-year-old heiters, and the balance cows, from 3 years up. No Berkshires to offer. In Cotswolds, about 24 lambs for fall trade. CHAS E. BONNYCASTLE, Station and P. O., CAMPBELLFORD, ONT.

OAK LANE FARM Clydesdales, Shorthorns and Cotswolds Young stock for sale most fashionably bred.

GOODFELLOW BROS., MACVILLE P. O., ONT. Bolton Station, C. P. R.; Caledon East, G. T. R. Local and Long-distance telephone.

CLOVER DELL SHORTHORNS



L. A. Wakely, Bolton, Ont. Bolton Junction, on C. P. R., within half mile of farm.

For Sale or Exchange Shorthorn Bull, in good brooding condition, dec. ox, hange but for an impe

t A GARNHAM, Straffordville P 0

Shorthorns, Clydesdales and Oxford Down Sheep. South Shortge, by Pre McFarlane & Ford, Dutton, Ont.

PLEASE MENTION THIS PAPER.

GOSSIP

Dr. T. S. Sproule, M. P., of Markdale, Ont., has lately sold the following Shorthorns from his Cedardale herd: To John Williamson, of Cylon, Ont., a choice red yearling bull, sired by the stock bull, Imp. Lord Fyvie, a Minerva-bred son of the great bull, Primrose Fancy, his dam being the Miss Ramsden cow, Martha 7th, a daughter of the Toronto grand champion, Imp. Prime Favorite. Mr. Williamson is to be congratulated on securing so richly bred a bull to head his herd. The Doctor has also sold to James Mc Fadden, of Glenelg, a red-roan yearling bull, got by the same sire, and out of one of the best milkers in the Cedardale herd, tracing to Beauty, by Snowball, on her dam's side, and sired by a bull bred on the same lines. This bull should do a power of good for Mr. McFadden, along the lines of milk-production.

John Miller, Brougham, Ont., in order ing change in his advertisement, says I am all sold out of young Shorthorn bulls fit for service. I have sold nearly twenty since the first of last December To John Sirrs, Pine Orchard, Ont., 1 sold a choice red calf, sired by the good imported bull, Benholm Butterfly: he also bought six of my best Shropshire ewe lambs, to start a flock with. E. B. Tole, of Blenheim, got a good fifteenmonths-old calf; he bought him on order, and was well satisfied. Mr. Sirett, of Rosseau, Ont., also bought a red sixteenmonths-old bull, on order, and wrote that he was just what he wanted. Chas P. McLennan, of Lefroy, took the red calf, Prince Brilliant, and to Heron Bros., Ashburn, I sold one of my best bred calves. These were all sold through my advertisement in "The Farmer's Ad vocate," and quite a number of others If any of your readers are in want of a choice ram to show and use, I have some of the best I ever raised, large and well covered; also a few yearling ewes fitted

ORCHARD GROVE HEREFORDS.

Orchard Grove Stock Farm lies abou one and a half miles south-east of the town of Oshawa, and is the home of one of the choicest herds of Hereford cattle in Canada. The owner, L. O. Clifford. is a young man that is rapidly making a name for himself as a breeder and fitter of high-class stock. The whitefaced beefers are his particular fancy, and on launching out as a breeder, his ambition and determination was to own the best herd in Ontario. That he is rapidly reaching the pinnacle of his ambition can be gleaned from the fact that last year, at Toronto, in his maiden effort to wrest won first and championship on cow, see ond on herd, first on yearling, and severa individual seconds. This year, with th herd considerably strengthened, we look for premier honors to go to this herd The stock bull in service is the Toronto London and Ottawa several times champion, Bourton of Ingleside, a bull of wonderful tlesh and form, and a sire with few equals in the breed. Among the breeding cows are such cracks as Amy 4th, who has to her credit several cham pionships at Toronto and Ottawa, Laura 13th, a Toronto first-prize Winner, and her two-year-old daughter, winner of first prize at Toronto for two years; Jessie a second-graze winner at Toronto, and several others, winners of more or less note, big, thick cows, from 1,600 to 1,900 Ps. in weight. Among the younge things in the herd just now are severa that have won homors in the world' vill certainly add honors for the here for sale are a number of heifers one and two years of age as well as a few truck nected with long-distance phone.

Anti-Trust Prices Freight Prepaid To You-No Duty on FARM and TOWN

Telephones and Switchboards Poles, Wire, Brackets, Insulators, Tools, Lightning Arresters, Ground Rods, Batteries, Insulated Wire, and everything necessary. NO CHARGE for our experts' letters of advice, drawing increasary.

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275 BURLINGTON SHORTHORNS 275

3 Choice Imported Scotch Shorthorn Bulls—yearlings. I Imported 2-year-old Bull, red—an extra sire.

10 Bulls, 9 to 16 months old—all by imported sire. 30 Choice Young Cows and Heifers-mostly bred or have Calves at foot. Long-distance telephone. Farm & mile from Burlington Jct. Sta., G. T. R.

J. F. Mitchell, Burlington, Ont. SCOTCH SHORTHORNS—Eight extra good young bulls, from 10 to 15 monthstold; 20 choice cows and heifers, forward in calf or with calves at foot. Prices reasonable. Inspection invited. W. G. PETTIT & SONS, Freeman, Ont.

Farms close to Burlington Jct., G. T. R

INVERNESS SHORTHORNS I can supply Shorthorns of all ages, with richest Scotch breeding and high-class individuality. W. H. BASTERBROOK, Freeman, Ont.

Imp. Scotch Shorthorns—When look-horns, be sure to look me up. Young bulls fit for service, and females all ages; bred in the purple, and right good ones. A. C. Pettit, Freeman, Ont.



Maple Leaf Shires, Shorthorns, Hampshire Hogs 1- and 2-yr. old Shire stallions, females from yearling fillies up; Shorthorns, both b and heiters; a choice lot of young Hampshire pigs, both sexes, beautifully belted. PORTER BROS., APPLEBY P.O., BURLINGTON STA. Phone.

PLEASANT VALLEY SHORTHORNS

For sale: 1 red, 1 roan, 2-year-old show bulls Several good bull calves, also some yearling heifers Some show propositions among them. If interested, write or call and see us before buying.

GEO. AMOS & SONS, MOFFAT, ONTARIO. Farm 11 miles east City of Guelph on C. P. R. ¹₂ mile from farm.

A. Edward Meyer

P. O. Box 378, Guelph, Ont., Breeds SCOTCH SHORTHORNS Exclusively Twelve of the most noted Scotch tribes have representatives in my herd. Herd bulls: Scottish Hero (imp.) = 55042 = (90065) 295765 A. H. B.; Gloster King = 68703 = 283804 A. H. B. Young stock for sale. Long-distance phone in house.



Shorthorns (Scotch)

Cows imported and home-bred, either in calf or with calf at foot. Royally bred and right quality. Catalogue. John Clancy, Manager. H. CARGILL & SON, Cargill, Ont.

GLENGO W | Maple Grange Shorthorns Shorthorns

Have two excellent bulls left yet, both about ten months old, and good enough for any herd; also a number of choice heifers, all ages. For particulars



Am offering an extra choice lot of 1s, 2s and 3s year-old heifers, South and Scotch-topped, Clarets, Non-pareils, etc., sired by Royal Bruce, lmp., and among them are daughters and granddaughters of imp. cows. Young bulls also for sale. Wm. Smith, Columbus, Ont. R. J. DOYLE, Owen Sound, Ont. Phone connection.

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The Show Time for All Live Stock and I can furnish young Shorthorn bulls, females all the Breeding Time for Sheep is Coming ages, and Shropshire and Cotswold sheep that will

be a credit to you in the show-ring, and will breed well for you also. I also have some beautiful children's ponies. Write and say what you want. Robert Miller, Stouffville, Ontario.

BINKHAM P. O., ONT., few choice Shorthorn Cows at bars prices, bred to stock bull, Benachie timp,) = 09951, also Shorthorn heuter calves. Three Clydesdale fillies 1 and 2 years old; and Yorkshire Company

GEORGE D. FLETCHER, JOHN GARDHOUSE & SONS Always have for sale a number of first-class **Short-horns**, **Shires** and **Lincolns**, of both sexes. Drop us a line, or better, come and see for yourself. Weston Sta., G.T.R.& C.P.R. Long-distance phone in house.

breed. Erin Shipping Station, C. P. R. HIGHFIELD P. O., ONTARIO.

CHOICE SCOTCH BULLS FOR SALE. HERD-HEADING QUALITY.

H. SMITH R. R. 3, Hay, Huron Co., Ont.

Farm adjoins Exeter, on G. T. R.

HIGH - CLASS SHORTHORNS | Spring Valley We have for sale have on hand young bulls and betters of bink day

I have on hand young bulls and heiters of high-class show type, pure Scotch and Scotch-topped, sired by that sire of champions. Mildred's Royal, It you want a show bull or heiter, write me, GEO, GIER, Grand Valley P.O. and station, also Waldemar station.

SPHING VAILEY Newton Ringleaus (imp.) = 73783 = . A good bull, with Also a Canadian-bred quality. Phone connection.

SHORTHORNS (imp.) = 73783 = . A good bull, with Also a Canadian-bred quality. Phone connection.

Kyle Bros., Ayr, Ont.

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I have generally what you want in choice Shorthorns.

Elora Station, G. T. R. and C. P. R. SHORTHORNS AND LEICESTERS

J. A. WATT, SALEM. Shorthorns and Oxford Down Sheep

Nowing bulls and heiters of richest Scotch breeding and highest quadity. Twelve ewe lambs, two aged teens and two ram lambs. None better. Phone W. A. Douglas, Tuscarora. Ont Caledonia Station. Duncan Brown, Iona P. O., Ont.



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When looking for Short-oung bulls fit for red in the purple, it, Freeman, Ont.

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first-class **Short**-both sexes. Drop yourself. Weston ice phone in house.

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Down Sheep

Scotch breeding lambs, two aged e better. Phone na P. O., Ont.

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The first remedy to cure Lump Jaw was

Fleming's Lump Jaw Cure and it remains today the standard treatment, with years of success back of it, known to be a cure and guaranteed to eure. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried—your money back if Flemlag's Lump Jaw Cure ever fails. Our fair plan of selling, together with exhaustive information on Lump Jaw and its treatment, is given in Flemlag's Vest-Pocket

West complete veterinary book ever printed

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A High Percentage

The combined percentage of Protein and Fat in

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GLUTEN FEED

is 25%

There is no better feed for milking cows. Present price, \$24.00 per ton.

The Brantford Starch Works BRANTFORD. ONTARIO.

Jerseys and Chester Whites

I am offering some choice young Jersey bulls, sired by Brampton's Blucher, winner of first prize, Toronto and Winnipeg, and from choice, deep-milking cows with good teats. Also Chester White pigs, 3 to 4 months old, both sexes, at special prices.

CHAS. E. ROGERS, Dorchester, Ont. ARE YOU IN WANT OF A

Choice Bull

To head your herd? We are offering choice bull calves sired by Fountain's Boyle, who won first prize at Toronto, London and Ottawa, who also headed first-prize herd at Toronto and Ottawa. Also offering some choice heiters.

D. Duncan, Don, Ont. Duncan Station, C. N. O.

BRAMPTON Jerseys

CANADA'S GREATEST JERSEY HERD We are offering for sale one 2-year-old bull and four yearlings, ht for service; also six bull calves; females of all ages. Come and see them or write. B. H. BULL & SON. BRAMPTON, ONT.

WANTED! Ten Jersey Heifer Calves, from 2 to 4 months old eligible to register. Send description, with lowest cash price, to: High Grove Stock Farm, P. O. Box III, Tweed Ont.

CENTRE AND HILLVIEW HOLSTEINS Offers a number of young bulls: One born Oct. 5 - more black; his dam gave at 5 years old 418 lbs. milk and 175 lbs. butter; his sister, at 4 years old, gave 416 lbs. milk and 17.13 lbs. butter in 6 days; his sire is Brookbank Butter Baron, who has a number of A. R. O. daughters - one 23.66 lbs. butter in 7 days at 5 years old. Price \$60 if sold at once. A few 2-year-old heifers from B.B.B. for sale. P. D. EDE, Oxford Centre. Wondsteek \$tation. D. EDE, Oxford Centre, Woodstock Station.

Glenwood Stock Farm Holsteins and Yorkshires Holsteins all sold out. Have a few young Yorkshires sows, about 2 months old, for sale cheap. True to the and first-class. Bred from imported stock. Thes. B. Carlaw & Son, Warkworth P.O., Ont.

MAPLE HILL HULSTEIN - FRIESIANS

SPECIAL OFFERING:
Four-year-old cow, fresh last October; bred April
2rd to Choicest Canary, whose dam is the highest
seen- and thirty-day revord cow in Canada. Bell phone. G. W. CLEMONS, St. George, Ont.

Ridsedale Holsteins—I have left three bull calves that will be priced right for goodk sale: their dams are heavy producers, and their serie was bred right. R.W. WALKER, Utica, Ont. Phone connection.

Maple Grove Holsteins It is from Holsteins and the sendants that the largest records are made and the combine individuality cassel, ont

QUESTIONS AND ANSWERS

Miscellaneous.

CABBAGE LICE.

Could you tell me, through "The Farmer's Advocate," or by return mail this week, what is good to clean the lice off of cabbage leaves? W. O.

Ans.-See article on cabbage lice and worms, under Garden and Orchard, page 1213, in "F. A." of July 28, 1910.

ECZEMA

I have a horse that keeps rubbing himself when he gets out, or any place; has no hair rubbed off. Kindly send me recipe for mange, if you think that is

Ans.-Horse has eczema. If the hair is long enough, clip him. Give a thorough washing with warm, strong, soft - soap suds, applied with a scrubbing brush, and ruh with cloths till dry. Then dress well, twice daily, with a solution of corrosive sublimate twenty-five grains to a quart of water. Give internally one ounce of Fowler's Solution of Arsenic, twice daily, every alternate week, as long as neces

LUMP JAW.

Have a yearling steer on which there is a bad swelling on one side of neck On this swelling there are two other lumps nearly as large as a hen's egg, which continue to discharge to a small I lanced it, but there was no more discharge. The steer is in good condition, and seems to be perfectly hearty. Kindly advise as to the contagiousness of the disease, and treat-

Ans .- This is, in all probability, a case of lump jaw. It is not scheduled as a contagious disease. The "iodide-of-potassium treatment" is the most practical method of checking and curing this trouble, though surgery may be exercised successfully in the early stages. Give a dram of potassium iodide, three times daily, gradually increasing the dose until the appetite fails, the animal refuses to drink, saliva runs from the mouth, and tears from the eyes. When any of these symptoms begin to appear, stop the treatment, or the animal will die. In three or four weeks repeat, if necessary.

DEHORNING-FOUL IN FEET.

1. Cow took a lameness in her foot: cleaned it out, found the hoof slightly decayed, with a bealing on the sole; applied blister, and poulticed it with linseed. Later, it began to beal all around ner foot; it then broke out in three places. What would you advise me to do? 2. When is the proper time to dehorn cattle; or is it injurious to dehorn them when giving a flow of milk, or has the age anything to do with it? Would it be likely to bring on any other disease? T. J. M.

Ans.-1. This is probably foul in the feet, caused by walking or standing in irritating substances such as rushes, or liquid manure. Put the animal in a clean, dry place; clean the foot well, and apply hot poultices, removed every three or four hours, for two or three days. When the acute soreness subsides, apply. three times, daily, a solution of carbolic acid one part, sweet oil twenty parts. If proud flesh has formed, apply a caustic two or three times, such as equal parts of butter of antimony and tincture of myrrh; apply with a feather. If it does not yield readily, call in your veterina-

2. Probably the best time of all to dehorn stock is when they are calves, by the use of caustic. With mature stock, however, as the shock is somewhat severe, it is not advisable to perform the operation during the milk flow; neither is the summer the best time, since the maggot fly is more likely to infest the open wound and cause trouble. In the winter, or late autumn, when the cattle are dry, or nearly so, would be the preferable time. There is no hability of bringing on any serious disease by the careful

Earnest but Prosy Street-corner Orator -"I want land reform; I want housing reform; I want educational reform; I want-

NEXT TIME you are in need of a Tub or a Pail or a Fire Bucket, see that your dealer shows you the ones made of

and buy no other. EDDY'S Fibreware is perfect in every detail; it is light, tight and durable.

POSITIVELY WILL NOT TAINT LIQUIDS.

Makes an Ar Pail for carrying milk.

THIS MODERN CANNER MAKES MONEY GROW

LEFEL In the savings bank, because it makes profit out of waste. Makes a market for fruits and vegetables that you've been losing every year. Makes your kitchen or store a canning factory. Easily worked, easily cleaned. Product the best. Three sizes: \$30, \$60, \$90; capacities: 100, 200, 400 tins an hour. Write for booklet No. 4C, Free, postpaid. A postal will do.

THE MODERN CANNER CO., CANADIAN BRANCH: ST. JACOB'S, ONTARIO.



Holstein - Friesians

FAIRVIEW FARM offers young bulls, sired by Pontiac Korndyke and Rag Apple Korndyke, without question the two greatest Korndyke bulls in the world, and out of cows with large A. R. O. records and testing 4% fat. Come and see them or write.

E. H. DOLLAR, Near Prescott.

WOODBINE FARM HOLSTEINS offers young bulls, brighted and bull calves, sired by Sir Creamelle, who is a direct decendant in two different lines of the great cow, Duchess Ormsby, 24.44 lbs. butter in 7 days, dam of five daughters with records and testind see them or write.

Heuvelton, N. Y.

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A. KENNEDY, AYR, ONTARIO. LAKEVIEW HOLSTEINS:

Bull calves sired by Count Hengerveld Fayne de Kol, whose sire is the sire of the world's champion milk cow, and whose dam is the dam of the world's champion butter cow. These calves are from A. R. O. cows with records up to 24 lbs. butter in 7 days. Also a few females for sale.

E. F. OSLER, Bronte, Ont.



Grace Fayne 2nd Sir Colantha. His dam, sire's dam and two sisters average 31.80 lbs. butter in 7 days. For further particulars send for catalogue. Address M. L. HALEY or M. H. HALEY, Springford,

World's Champion-Bred

Bull High-class Holsteins Head of herd, Pietje

Grace Fayne 2nd Sir Colantha. His
dam, sire's dam and two sisters average
31.80 lbs. butter in 7 days. For further
particulars send for catalogue. Address
M. L. HALEY or M. H. HALEY,

ARACO, dams.

Head of herd, Pietje
Rorndrich Edwin Fietje 22nd, has a record of 31.62
lbs. butter in 7 days. Present offering: now booking
orders for bull calves sired by above sire and out of
A. R. O. dams. WM. C. STEVENS, PHILLIPSVILLE, ONT.

High-class Holsteins and Tamworths.

I am now offering a number of two and three year old heifers, with official records from 11 to 20 pounds butter in 7 days; also bull calves with rich backing. Tamworth boars from 6 weeks to 1 year old—imp. sire and dam. A. C. HALLMAN, BRESLAU, ONT.

Elmwood Holsteins Choicely-bred calves for April and May delivery. Sired by imported Ykema Sir Posch and Pontiac Sarcastic, a grandson of Sarcastic Lad. Registered. Delivered. Express paid. Safe delivery guaranteed. B. D. GBORGE & SONS, PUTNAM, ONT.

Spring Bank Holsteins and Yorkshires

For sale: 1 cow, 6 years old, good producer;
3 bull calves; young Yorkshires sows.

Wm. Barnet & Sons, Living Springs, Ont,
Fergus Station, G. T. R. and C. P. R.

Wm. Barnet & Sons, Living Springs, Ont. Fergus Station, G. T. R. and C. P. R.

The Maples Holstein Herd | CRAIGALEA AYRSHIRES of Record-of-Merit cows, headed by King Posch De Kol. Nothing for sale at present except choice bull'calves from Record-of-Merit cows. Also one or two good cows.

WALBURN RIVERS, FOLDEN'S, ONTARIO

ATRIFICE



BURNSIDE AYRSHIRES!

Fresh importation just landed in quarantine of 60 head. I have the choicest lot of 12 young bulls I have ever imported. From the best herds in Scotland, such as Auchenbrain. Osborne, Netherhall, Bargenoch, Barr of Hobsland, Mitchell of Lochfergus. All fit for service. A number of cows, 3-year-olds, 2-year-olds, and 20 choice yearling heifers. All are for sale.

R. R. Ness, Howick, Que.

We still have a few choice individuals of almost any age on hand in Ayrshires, and are always ready to price any. Other breeders in this section. Bull calves from Record of Performance cows. A few young Yorkshires on hand.

Long-distance phone.

ALEX. HUME & CO., MENIE, ONT. Yorkshires! ALEX. HUME & CO., MENIE, ONT.

Bull calves, from 4 months to 9 months, from imported sire and Record of Per-Ayrshires

Bull calves, from 4 months to 9 months, from imported sire and Record of Performance dams. Records 50 to 63 pounds per day. N. Dyment, Clappison's Corners, Ont.



HILLCREST AYRSHIRES. - Bred for production and large teats. Record of Performance work a specialty. Fifty head to select from. Prices right. FRANK HARRIS, Mount Eigin, Ont.

Stonehouse Ayrshires 36 head to select from, All imported or out of imported sire and dam. For sale: females of all ages. Am now booking orders for bull calves. Hector Gordon. Howick. Ouebec.



ISALEIGH GRANGE AYRSHIRES! Our herd were all selected on their ability to produce a heavy yield of milk. We have a number of 40, 45 and 50 lb. cows, imported and Canadian-bred. From them are young bulls and heifers for sale. None better JAMES BODEN, DANVILLE, QUEBEC ISALEIGH GRANGE FARM.

Lost Five Children With **DIARRHOEA**

Saved the Sixth One With

DR. FOWLER'S **Extract of** Wild Strawberry.

Mrs. John Firth, Craighurst, Ont., writes:-"I have had six children and lost them all but one. When young they would get Diarrhœa and nothing would stop it.

As I lived in a backward place, I did not know of Dr. Fowler's Extract of Wild Strawberry.

I saved my last child, who is now eight years old, but I owe it to Dr. Fowler's Extract of Wild Strawberry. Had I known about it before I feel that I would have saved the others. I shall forever praise and bless it and will never be without it again."

"Dr. Fowler's" has been on the market for over sixty-five years, and has a "world wide" reputation for curing all Bowel Complaints.

Do not be imposed upon by any unscrupulous dealer who wishes to substitute the so-called Strawberry Compounds for "Dr. Fowler's." Price 35 cents. Manufactuted only by The T. Milburn Co.. Limited, Toronto, Ont.

WE WANT TO BUY YOURS.
WRITE NOW FOR OUR PRICES.

E. T. CARTER & CO., TORONTO, CANADA 84 FRONT ST., E.,

SHROPSHIRES AND COTSWOLDS

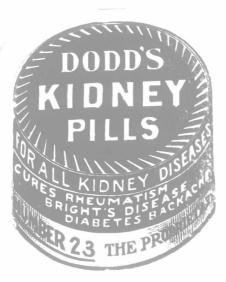
I am now offering a choice lot of yearling rams of my own breeding from imp. Minton ewes, also ram and ewe lambs of both breeds. A few rams and

John Miller, Brougham, Ontario

A few fitted shearlings and lambs for sale, and some good strong breeding sheep of all ages. Long-distance phone. ROBT McEWEN. BYRON, ONTARIO

Little Boy-I want a dose of castor oil. Druggist-Do you want the kind you

Little Boy (anxious to get even) No sir, it's for mother



GOSSIP

GETTING MAGAZINE FACTS RIGHT. Important articles in magazines of the tyre of the "American," "Collier's," "McClure's," and "Everybody's," like plays, are rewritten rather than written. To begin with, there must be the idea, then to find the man or woman best able to embody it. That settled, the author must steep himself in his subject. When he acquires mastery, his findings are written down and submitted to the editor. This may take months; it often requires years.

It has happened that the editor did not know what he wanted until he read this first draft. Now he has the subject spread before him by an authority. His associates all read it and criticise. Sometimes that first draft is flawless, but most often it is returned to the author with direction for reconstruction. The process may be repeated half a dozen times. Finally the manuscript is satisfactory, which means that it is valuable, simply expressed, and readable. It is in shape for publication. It is put into type and sent around to outside experts who are the representative authorities on

In these days, a magazine can afford to have its conclusions disputed, but its facts must be incontrovertible. Perhaps the trouble the big publications take to be right-and that means square and just, as well as accurate-explains such prestige and influence as they now enjoy in America.-Everybody's Magazine.

CLOSING FEATURES OF THE ROYAL SHOW.

(Our English correspondence.)

The last two days of the Royal Showthe popular shilling days-were harassed by rain and mud, but in spite of the handicaps, about 40,000 people paid for admission on each day. All hope of breaking Newcastle's wonderful attendance record was abandoned, but the total attendance for the five days reached the ex cellent figure of 137,812. It is satisfactory to note that the society will have a profit on the show of about £6,000 or £7,000.

The finest feature of the last day was the parade of 200 heavy draft horses in years. Liverpool has long been proud of her magnificent heavy horses, and rightly so. A we'l-known judge remarked as the horses passed: "I did not believe the country contained so many team horses of such average high value. I would not hesitate to pay £100 each for the first eighty which 1 could select as they passed."

The Liverpool corporation and Messrs. Challenge Cup, for best tandem, and same pretty driving was seen. Miss Dora schutz, of Liverpool, was the winner with her grand chestnuts, "Catalina" and "Morocco." Another good competition was for the "Viking" Challenge Cup, for John Kerr's bays, "Londwater Diana Vernon' and "Loudwater Rob Roy," were the winners.

Some capital prices were paid for bulls at the auction sale during the show bidding was keen for anything of high quality. The highest price was 1,050 gumeas, for Lord Middleton's roan Shorthorn, "Birdsall Crusus," second in his class. He was bought by Mr Rodgers guineas, 400 guineas and 305 guineas Messes, Garne.

Shrapshire ram, from T. S. Monton's flock. Mr. Harding, of Q. S. V. Baid

The Full Percentage of Cream

Getting the full percentage of cream from milk depends as much upon the oil used to lubricate the separator as upon the separator itself. Gummy oil will cut the fine bearings of your machine, spoil its balance and waste good cream in the skim-milk pail.



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never gums, never rusts, never corrodes. It feeds freely into the closest bearings and insures the perfect lubrication that is essential to the free spinning of the bowl and the complete separation of cream from milk. It lessens the driving effort and lengthens the life of your separator.

One gallon cans. All dealers. Or write to The Imperial Oil Company, Limited

Ontario Agents: The Queen City Oil Co., Ltd.

EICESTER

Willowdale Stock Farm, Lennoxville, Quebec Has Leicester sheep that cannot be beaten in Canada. Lambs of both sexes for sale. Exhibition stock. Lambs came in February and March.

J. H. M. Parker, Lennoxville, Que.

FARNHAM OXFORD DOWNS Oxford Rams

Our present offering is a grand lot of ram lambs for flock headers, from our imported champion ram, and a number of them from imported ewes. Also a first-class imported yearling and a two-shear ram. Fifty superior yearling ewes, and a number of ewe lambs. We are also offering a few large Hampshire ram lambs from imp. sire and dam. Long-distance phone on the farm: Central, Guelph.

HENRY ARKELL & SON, ARKELL, ONTARIO. Teeswater,

Parties having Oxford rams for sale are requested to write the under-signed, stating age of rams, weight, price, and if recorded. PETER ARKELL & SONS,

Fairview's Shropshire Offerings: Their breeding is of the very proved their superior quality in the leading show-rings, including three World's Fairs, where the Fairview exhibits won more section, flock, champion and special prizes than all competitors combined. That's the kind we now offer. For a flock header or a few ewes, write for circular and prices to: J, & D, J, Campbell, Fairview Farm Woodville, Ont.



and Hogs.

The old standby for all who have stock liable to ich trouble. Write to-day.
G. JAMES. ROWMANVILLE, ONTARIO.

Metal Ear Labels for Cattle, Sheep and Hogs.

Metal Ear Labels for Cattle, Sheep and Hogs.

Oxford Down Sheep, Shorthere tie, Yorks Hogs Present offering: Lambs of either sex, prices, etc., write to John Cousins & Se Harriston, and Hogs.

HILLVIEW YORKSHI

When writing Please Mention this Paper | W. F. DISNEY, GREENWOOD, C

PINE GROVE YORKSHIRES At the late Guelph Winter Show we won more prizes than any two exhibitors, including all the firsts and sweepstakes for best dressed carcasses, both at Guelph and Ottawa Winter Fat-stock Shows of 198-19. Young pigs for sale, mated not aking all the progeny of imported grant of the stock of superior excellence. Joseph Featherston & Son, Streetsville, Ont.

Newcastle Tamwerths and Shorthorns | FOR SALE: Young sows due April and May, imp. boar, dams by Colwill's Choice. Canada's hampion boar in 1901-2-3-5; also choice pigs, both Thampion boar in 1901-2-55; also choice pigs, both exes. Two yearling Shorthorn bulls, Syme and avender families, and six choice heiters and heifer alves. Prices right. Bell phone.

A. A. Colwill, Box 9, Newcastle, Ont.

Willowdale Berkshires! if you want one. J. J. WILSON, Importer and Breeder, Milton P. O. and Station. C. P. R. and G. T. R.





present time a fine lot of young sow to imp. boar, due to farrow end of also boars ready for service. A go of spring pigs. Pairs supplied not aki large stock from the best British Long-distance Bell phone. C.P.R. &

H. J. Davis, Woodstock,



Monkland Yorkshires With very nearly 100 sows ing, of modern type and h quality, our herd will start parison with any in Canada. We are always in a position to fill large or small parison with any in Canada. We are with despatch. Long-distance phone JAMES WILSON & SONS, FERGU

Hilton Stock Farm Holsteins and PINE GROVE BERKSHI

R.O.MORROW & SON, Hilton, Ont.



Sows bred and ready to breed. Nice things, three and four months old. W. W. BROWNRIDGE,
Milton, C. P. R. Ashgrove, Ont.
Georgetown, G. T. R.

MORRISTON TAMWORTHS 2 DUROC - JERSEY SWINE Also Emisting and MAC CAMPBELL & troom best herd in England. Prices SONS, HARWICH, ONT.

Chas. Currie, Morriston, Ont.

Maple Villa Yorkshires and Oxford Dov

ser cady for use. Some splendid son A. CERSWELL, BOND HEAD, ONT BEETON OR BRADFORD STA

GOSSIP.

Dr. D. McEachran, of Ormstown, Que., makes a change in his advertisement, in which he states that his June importation of Clydesdales being immediately disposed of, he will, to fill numerous orders. have a large consignment of yearlings and two-year-olds arrive at the end of September, and in the meantime special orders will be executed for customers who will communicate with him, stating their wants.

PLEASANT VALLEY SHORTHORNS. The almost unprecedented success that has attended the venture of Geo. Amos & Son, of Moffat, Ont., as breeders of Shorthorns in the ten years of their experience, is evidence of natural adaptability for that particular line of pure-bred stock-breeding, and uncommonly fine judgment in the selection of breeding stock, backed up by a master ability to care for, feed and exhibit them in the best possible fit. Their first purchase was made ten years ago, and consisted of three Golden Drop females, and the Vanity bull, Vanguard, a son of Imp. Knuckle Duster. This cross produced a number of local show winners that, in turn, crossed with their next herd-header, Imp. Old Lancaster, made an international reputation for the firm, and proved one of the greatest sires of his day; produced a number of winners at Toronto and other leading shows in Western Canada and the United States. The next addition made to the herd was the purchase of Imp. Mattie, a Mysie cow, and Imp. Scottish Queen, a Jilt. The latter, mated with Imp. Old Lancaster, produced that great heifer, Pleasant Valley Jilt, who won for the firm the grand championship at Toronto, and afterwards sold for \$2,500; Scottish Queen also produced the grand young bull, Scottish Signet, by Old Lancaster, considered by the firm one of the best they ever raised, and is retained as one of their main stock bulls. Another notable son of this great cow is Jilt Victor, imported in dam, who won so many honors at the leading shows in the herd of James A. Watt. Imp. Mattie, also produced her quota of Toronto winners, and is the dam of Lancaster Princess, who, in turn, is the dam of Lomond's Mysie, junior champion at Toronto last year, and which sold for (2,000) at auction last winter, she being sired by Ben Lomond, which followed Old Lancaster as chief herd-header. Pleasant alley Mysie, a full sister to Lomond's Mysie, also won first prize as junior heifer calf at Toronto last fall. Other breeding cows purchased were Imp. Sweet Four of the daughters of the latter pow, by Old Lancaster, are doing duty in the herd, three of them being Toronto winners. Imp. Princess Victoria, whose daughters have won honors for the firm at Toronto, one of them, Victoria 74th, sold to cross the border, has a brilliant record of winnings in the land of the Stars and Stripes. Scottish Lassie, a Flora-bred cow, produced for the firm the sensational herfer, Flora 90th, by Old Lancaster, she was grand champion of Canada in 1007, and in the United States in 1908. Another of the great breeding cows is Resolved 11th, the dam of Lan-caster Bud, they prize two-year-old, and reserve champion at Toronto last fall, and grand chaimpion at Alaska-Yukon Exhibition, Scattle, 1909. Briefly, this firm has w at Toronto, on animals (with t). vocation of Imp. Old Lancaster) of : Wh breeding, first, senior and grand a tonship on Old Lancaster, in 1500 and grand championship on Flora 1 m7. first, junior and grand () on Pleasant Valley first and reserve junior Lomond's Mysie; first, infromship and reserve grand on Lancaster Bud, both exhibit in threeder's herd, List on get of one sire. first of one cow, etc., a W1]]

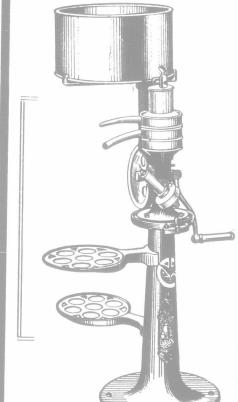
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The CAPITAL Is the Cream Separator that will "Buy Itself" For You.

As soon as you have read this advertisement, sit down and write a post card for The Capital book-the book that not only tells the story of the easy-running, cream-saving separator, but that tells how you can put The Capital in your own dairy practically without costing you a cent

The book also tells all about the wonderful Capital gears, about their perfect meshing and non-wearing qualities-how they run in oil-how an automatic clutch stops them running the minute you let go of the handleand about how they give the light, three-and-a-half-pound bowl 7,000 revo-

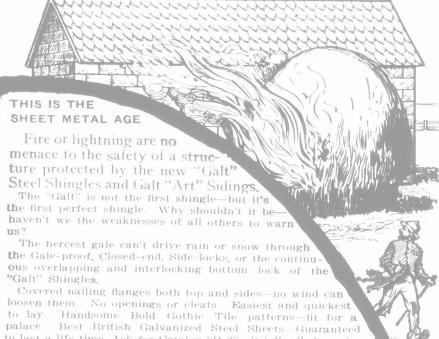
It tells how and why The Capital skims closer-why The Capital wastes less than one-fifth the cream that other separators waste — and then explains how the machine can be made sweet and clean in two minutes after you are through using it.

This book is full of hard-and-fast facts-separator facts-which every dairyman owes it to himself to know; facts which will prove a revelation to the dairyman who is not familiar with The Capital.

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BOYS FOR FARM HELP Homes invite applications from farmers or others, for the boys who are arriving periodically from England to be placed in this country. The young immigrants are mostly between 11 and 13 years of age; all will have passed through a period of training in Dr. Barnardo's English Institutions, and will have been carefully selected with a view to their moral and physical suitability for Canadian life. Full particulars as to the terms and conditions upon which the boys are placed may be obtained up-on application to Mr. Alfred B. Owen. Agent Dr. Barnardo's Homes, 50-52 Peter St., Toronto.

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GET SEVENTY-EIGHT POUNDS OF STEEL TO THE SQUARE

So put it squarely up to the next fellow who tries to sell you some roofing "as good as Oshawa Steel Shingles." Ask him to agree in writing to replace the roof free if it gives any trouble within the next quarter-century. Then watch him dodge. See him evade. Hear him tell about Mr. Somebody, of Someplace, who roofed a barn with his roofing in 1884 and it's a good roof yet. Hark to him ask if that doesn't make you feel safe.

Tell him it doesn't prove what the Pedlar Guarantee does prove. Because that guarantee is your absolute protection against woof troubles.

is your absolute protection against roof troubles for twenty-five years to come.

There is your roof-insurance for the future. There is a binding promise to give you a new roof entirely free, to put it on the building for you free, and to guarantee it for another twenty-five years, if your roof of Oshawa Galvanized Steel Shingles gives any roof trouble within twenty-five years from the day it's on.

There is \$250,000 capital back of that guar-There are 48 years of honorable reputation back of that guarantee. the biggest business of its kind in the British Empire back of that guarantee

So it is plain common sense for you to refuse to buy any roofing that is not guaranteed. And the only kind that is guaranteed is this kind we make — Oshawa Galvanized Steel Shingles. Guaranteed for 25 years. Actually good for a century.

This is the Roofing For Your Money

Oshawa Galvanized Steel Shingles make the Oshawa Garvanized Steel Similars make the roof you can best afford for any building. They cost but five cents a year per square. (A square is 100 square feet). They are stamped from heavy sheet steel—28 gauge steel. Then they are thickly galvanized. That means they are coated with zinc—the rust defying metal—in such a way that the zinc is driven right into the steel. It cannot flake off, as it would if this galvanizing were done the ordinary way.

Thus these Oshawa Shingles require no sainting. They will not rust. They cannot possibly leak.

So you are sure you will have no bother with your Oshawa-shingled roof, once it's on the building. You can depend on that; and you can doubly depend on it because you have the guarantee. Hand it to your banker or lawyer to keep for you; and know that it is good for a new roof right up to the last day of the twentyfifth year - if the first one gives any trouble

Cost Far Less Than Wood Shingles

You must pay about the same price per square for ordinary wood shingles. They will cost you more to lay, because it is a quick and simple job to roof with Oshawa Steel Shing

And the wood-shingled roof will need repair every year or two. Probably it will leak from the start. And it will be no real roof at all at the end of tenve as, at the most.

You can be contain that an O-bawa-hingled

This is the Roof That Really Protects

Oshawa-shingled roofs are not merely weather proof roofs. They are fire-proof roofs. They are wird-tight roofs. They keep buildings cooler in summer and warmer in winter.

And the building covered with Oshawa Steel Shingles is safe against lightning—far more so than it would be if it fairly bristled with light-

ning rods.

Put these Oshawa Shingles on a building, following the simple, plain directions that come with them, and you have a roof that is handsome enough for a city hall and that absolutely

Practically an Oshawa-shingled roof is one seamless sheet of tough galvanized steel. a crevice for moisture to get through. No way to set fire to it. No chance for the wind to worry it. Dampness cannot gather on the under-side of it. It needs no painting. And you need not worry about it needing any repairs, for twenty-five years at least.

Isn't that kind of a roof the roof for you? Isn't that kind of a roof worth more than it costs? Isn't it the only roof you ought to consider?—since it is the only roof of which all these things are true.

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When you have read that book through, you will know more about roofing than a good many experts know. It gives you facts, proofs, figures. Get it and read it. Get it even if you

don't expect to do any roofing for some time yet. It will put you right on the teen pounds or G. A. Pedlar whole roofing question.

With the book will come a copy of our Guarantee. Study that, too, and see how fair and square and straightforward it is. See what positive protection it gives the man who buys Oshawa Steel Shingles.

Sample Shingle Free

WITH the book will come a sample of the Oshawa Shingle itself. It will interest to study it. You will see the actual you to study it. You will see the accommendation. You will see that the Pedrous edges of the shingle, makes it certain that moisture never can get through any Oshawa-Shingled roof. You will see how the Pedlar process of galvanizing drives the zinc right into the steel so it never can flake You will be in no doubt about which fing after you have studied this shingle. Send for it and the Book and Guarantee - Send now.



SHAWA STEEL SHINGLES are made of 28 gauge steel, specially toughened and heavily galvanized to make them rust-proof. Thus they weigh about

seventy-eight pounds to the square. With the box about 88 pounds to the square. When considering metal shingles always learn the weight of metal per square offered and be sure that the weight is of the metal only.

Make the weight test yourself. First be sure the scales are accurate. Then unbox a square of Oshawa Shingles and weigh them. Note that the weight averages 78 pounds without the box.

Don't go by the box weight. Some boxes weigh four-

Send to-day for Sample Shingle and "Roofing Right" Booklet No. 16

It Will Pay You to Pedlarize All Your Buildings

"To Pedlarize" means to sheathe your whole home with handsome, lasting and beautiful steel ceilings, side-walls, outside, roof. It means to protect yourself against cold; against fire; against much disease; against repair-bills. Ask us and we will tell you the whole story. Just use a postcard and say: "How about Pedlarizing my house?" State whether brick or frame. Write to-day.



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